

# FEDERAL ITEM IDENTIFICATION GUIDE

## VALVES, REGULATING

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This Federal Item Identification Guide for Supply Cataloging is issued under the authority of Department of Defense Instruction 5025.7.

The use of this publication is mandatory for US. Federal Activities participating in Federal Catalog System Operations.

BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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## GENERAL INFORMATION

### 1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

### 2. Contents

This FIIG is comprised of the following:

Index of Approved Item Names Covered by this FIIG  
Applicability Key Index  
Section I - Item Characteristics Data Requirements  
Section III - New text that should be here.  
Appendix A - Reply Tables  
Appendix B - Reference Drawing Groups (as applicable)  
Appendix C - Technical Data Tables (as applicable)

#### a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

#### b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (\*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (\*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (\*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign ( \$\$ ) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (\*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

**(3) Mode Code:**

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

**(4) Requirement:**

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

**(5) Reply Code:**

A code that represents an established authorized reply to a requirement.

**d. Section III - Supplementary Technical and Supply Management Data:**

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

**e. Appendix A - Reply Tables:**

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

**f. Appendix B - Reference Drawings:**

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

**g. Appendix C - Technical Data Tables:**

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode</u>	<u>Requirement</u>	<u>Example</u>
		<u>Code</u>	
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

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ZZZY .....	35
CRTL .....	35
PRPY .....	36
ELRN .....	36
NHCF .....	37
ELCD .....	37
ACKN .....	39
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ACMZ .....	39
ACPG .....	39
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## INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
Regulator		
1. A device designed to control or maintain designated characteristics at predetermined values, or vary them in accordance to a predetermined plan. Excludes governors, which perform a similar function in controlling speed or revolutions per minute.		
<b>REGULATOR (1), WATER TEMPERATURE, PHOTOGRAPHIC PROCESSING</b>	19973	E
A device usually consisting of valves, pressure regulators, temperature regulators, and the like. It is designed to be attached to hot and cold water plumbing connections for mixing hot and cold water to a constant predetermined temperature for photographic processing.		
Valve		
1. A mechanism designed to control the flow of liquids or gases either within a closed system such as a pipeline or between the atmosphere and a closed system. It may be manually and/or power operated, actuated by predetermined pressure and/or temperature, or a pressure and/or temperature differential. Excludes FAUCET (as modified); COCK (as modified); and THERMOSTAT (as modified).		
<b>VALVE (1), CALIBRATED FLOW</b>	33212	F
A valve specifically designed to automatically maintain a predetermined discharge flow rate which may be adjustable within a specific range. It is designed to be used with various fluids and may be preset and/or adjustable. It may be inline or cartridge (manifold) design. Excludes VALVE, REGULATING, FEED WATER; VALVE, REGULATING, FLUID PRESSURE; VALVE, REGULATING FUEL OIL; VALVE, REGULATING, OIL PRESSURE, AUTOMATIC PILOT; VALVE, REGULATING TEMPERATURE; VALVE, ANGLE; and VALVE, GLOBE.		
<b>VALVE (1), FLUID PRESSURE REGULATING, AIRCRAFT</b>	51190	D
A valve specifically designed for aircraft use designed to automatically maintain within close limits a predetermined outlet pressure which may be adjustable within a specified range regardless of the higher fluctuating or constant inlet pressure. It is designed for use with compressed gas(es) and various liquids and may include gauges. It may be inline or cartridge (manifold) design. See also VALVE, REGULATING, FLUID PRESSURE.		
<b>VALVE (1), REGULATING, FEED WATER</b>	07741	A
A valve designed for regulating feed water flow to boilers. It is not a self-contained control but a component of boiler feed water regulating system.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
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VALVE (1), REGULATING, FLUID PRESSURE	27565	D
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A valve designed to automatically maintain within close limits a predetermined outlet pressure which may be adjustable within a specified range regardless of the higher fluctuating or constant inlet pressure. It is designed for use with compressed gas(es) and various liquids and may include gauges. It may be inline or cartridge (manifold) design. Excludes REGULATOR, PRESSURE, MEDICAL GAS ADMINISTRATION APPARATUS; REGULATOR, OXYGEN, BAROMETRIC CONTINUOUS FLOW; REGULATOR, OXYGEN DEMAND; REGULATOR, OXYGEN DILUTER DEMAND; and VALVE (1), FLUID PRESSURE REGULATING, AIRCRAFT.

VALVE (1), REGULATING, FUEL OIL	10264	B
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A valve with a grooved or slotted seat covered by a rotating cam or slotted disk designed for the accurate regulation of the flow of fuel oil to a burner or burner manifold. It is equipped with a position indicator.

VALVE (1), REGULATING, OIL PRESSURE, AUTOMATIC PILOT	05429	C
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A valve designed to regulate oil pressure from an oil source to an automatic pilot.

VALVE (1), REGULATING, OXYGEN SYSTEM PRESSURE	37940	D
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A valve used to automatically maintain within close limits a predetermined pressure within an oxygen system regardless of the higher fluctuating or constant inlet pressure. The excess pressure is bypassed to the accumulator or reservoir in lieu of passing through the entire system. It is specifically designed and/or CLEANED FOR OXYGEN SYSTEMS. Excludes VALVE, REGULATING, SYSTEM PRESSURE; VALVE, REGULATING, FLUID PRESSURE; and VALVE, CALIBRATED FLOW.

VALVE (1), REGULATING, SYSTEM PRESSURE	35896	D
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A valve designed to automatically maintain within close limits a predetermined pressure within a closed system regardless of the higher fluctuating or constant inlet pressure. The excess pressure is bypassed to the accumulator or reservoir in lieu of passing through the entire system. It is designed primarily for use in refrigeration and air conditioning systems. Excludes VALVE, REGULATING, FLUID PRESSURE and VALVE, CALIBRATED FLOW.

VALVE (1), REGULATING, TEMPERATURE	05492	E
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A self-acting valve designed for controlling, by means of a thermostatic element, the flow of liquids or gases therethrough. The thermostatic element is located in liquid or gas whose temperature is controlled by the heat of the liquid or gas flowing through the valve. See also VALVE, RELIEF, PRESSURE AND TEMPERATURE.

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
VALVE, SPEED CONTROL, AUTOMATIC PILOT	05152	D

A component of an automatic pilot system designed to regulate the speed of a hydraulic servo cylinder's response to control signals by means of manual adjustments.

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**APPLICABILITY KEY INDEX**

	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
NAME	X	X	X	X	X	X
AAFZ	X	X	X	X	X	X
ACSH	AR	AR	AR	AR	AR	AR
ABEP	AR	AR	AR	AR	AR	AR
ADQT	AR	AR	AR	AR	AR	AR
CCFG	AR	AR	AR	AR	AR	AR
ADQU	X	X	X	X	X	X
ADQV	AR	AR	AR	AR	AR	AR
AAJP	AR	AR	AR	AR	AR	AR
ADQZ	X	X	X	X	X	X
BZRS	AR	AR	AR	AR	AR	AR
ACKM	AR	AR	AR	AR	AR	AR
ACLR	AR	AR	AR	AR	AR	AR
ACLS	AR	AR	AR	AR	AR	AR
ACMX	AR	AR	AR	AR	AR	AR
ACMY	AR	AR	AR	AR	AR	AR
ACPE	AR	AR	AR	AR	AR	AR
ACPF	AR	AR	AR	AR	AR	AR
AAQL	X	X	X	X	X	X
ADQL	AR	AR	AR	AR	AR	AR
ADQM	AR	AR	AR	AR	AR	AR
ADQN	AR	AR	AR	AR	AR	AR
ADQP	AR	AR	AR	AR	AR	AR
ADQQ	AR	AR	AR	AR	AR	AR
ADQR	AR	AR	AR	AR	AR	AR
ACSX	AR	AR	AR	AR	AR	AR
ACKL				X	AR	AR
AEVK		X	X			
AESJ	X					
AEVL	X					
AEVM					AR	
ADZJ	AR	AR	AR	AR	AR	AR
ADZH					AR	AR
AEVN	X	X	X			AR
AEVP	AR	AR	AR			AR
AEVQ				AR		
AEVR				X		
AEVS				AR		
AEWJ					AR	
AEVT					AR	
AEVU					AR	
AEVV					AR	
AEVW					AR	
AEVX					X	
AZKQ	AR	AR	AR	AR	X	AR
AEVZ	X			X	AR	AR
AEWA					AR	
AEVA					AR	

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AEWB	X					
ADSY		X				
AEWD	AR					
AEWE	AR					
AEWF		X				
ABFF	AR	AR	AR	AR	AR	AR
AEWG #	AR	AR	AR	AR	AR	AR
ABWC #	AR	AR	AR	AR	AR	AR
AEWH #	AR	AR	AR	AR	AR	AR
FEAT	AR	AR	AR	AR	AR	AR
TEST	AR	AR	AR	AR	AR	AR
SPCL	AR	AR	AR	AR	AR	AR
ZZZK	AR	AR	AR	AR	AR	AR
ZZZT	AR	AR	AR	AR	AR	AR
ZZZX	AR	AR	AR	AR	AR	AR
ZZZY	AR	AR	AR	AR	AR	AR
CRTL	AR	AR	AR	AR	AR	AR
PRPY	AR	AR	AR	AR	AR	AR
ELRN	AR	AR	AR	AR	AR	AR
NHCF	AR	AR	AR	AR	AR	AR
ELCD	AR	AR	AR	AR	AR	AR
ACKN	AR	AR	AR	AR	AR	AR
ACLT	AR	AR	AR	AR	AR	AR
ACMZ	AR	AR	AR	AR	AR	AR
ACPG	AR	AR	AR	AR	AR	AR
ACKP	AR	AR	AR	AR	AR	AR
ACKQ	AR	AR	AR	AR	AR	AR
ACKR	AR	AR	AR	AR	AR	AR
ACKS	AR	AR	AR	AR	AR	AR
ACLU	AR	AR	AR	AR	AR	AR
ACLV	AR	AR	AR	AR	AR	AR
ACLW	AR	AR	AR	AR	AR	AR
ACLX	AR	AR	AR	AR	AR	AR
ACNA	AR	AR	AR	AR	AR	AR
ACNB	AR	AR	AR	AR	AR	AR
ACNC	AR	AR	AR	AR	AR	AR
ACND	AR	AR	AR	AR	AR	AR
ACPH	AR	AR	AR	AR	AR	AR
ACPJ	AR	AR	AR	AR	AR	AR
ACPK	AR	AR	AR	AR	AR	AR
ACPL	AR	AR	AR	AR	AR	AR
ACKT	AR	AR	AR	AR	AR	AR
ACLY	AR	AR	AR	AR	AR	AR
ACNF	AR	AR	AR	AR	AR	AR
ACPM	AR	AR	AR	AR	AR	AR
ACKZ	AR	AR	AR	AR	AR	AR
ACMF	AR	AR	AR	AR	AR	AR
ACNN	AR	AR	AR	AR	AR	AR
ACPU	AR	AR	AR	AR	AR	AR
ACLE	AR	AR	AR	AR	AR	AR
ACML	AR	AR	AR	AR	AR	AR
ACNT	AR	AR	AR	AR	AR	AR
ACPZ	AR	AR	AR	AR	AR	AR
ACLF	AR	AR	AR	AR	AR	AR
ACMM	AR	AR	AR	AR	AR	AR
ACNU	AR	AR	AR	AR	AR	AR
ACQA	AR	AR	AR	AR	AR	AR

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ACLG	AR	AR	AR	AR	AR	AR
ACMN	AR	AR	AR	AR	AR	AR
ACNV	AR	AR	AR	AR	AR	AR
ACQB	AR	AR	AR	AR	AR	AR
ACLH	AR	AR	AR	AR	AR	AR
ACMP	AR	AR	AR	AR	AR	AR
ACNW	AR	AR	AR	AR	AR	AR
ACQC	AR	AR	AR	AR	AR	AR
ACLJ	AR	AR	AR	AR	AR	AR
ACMQ	AR	AR	AR	AR	AR	AR
ACNX	AR	AR	AR	AR	AR	AR
ACQD	AR	AR	AR	AR	AR	AR
CLK	AR	AR	AR	AR	AR	AR
ACMR	AR	AR	AR	AR	AR	AR
ACNY	AR	AR	AR	AR	AR	AR
ACQE	AR	AR	AR	AR	AR	AR
ADRN	AR	AR	AR	AR	AR	AR
ADRP	AR	AR	AR	AR	AR	AR
ADRQ	AR	AR	AR	AR	AR	AR
ADRR	AR	AR	AR	AR	AR	AR
ACLL	AR	AR	AR	AR	AR	AR
ACMS	AR	AR	AR	AR	AR	AR
ACNZ	AR	AR	AR	AR	AR	AR
ACQF	AR	AR	AR	AR	AR	AR
ACTE	AR	AR	AR	AR	AR	AR
ACTF	AR	AR	AR	AR	AR	AR
ACTG	AR	AR	AR	AR	AR	AR
ACTH	AR	AR	AR	AR	AR	AR
ACTK	AR	AR	AR	AR	AR	AR
ACTL	AR	AR	AR	AR	AR	AR
ACTM	AR	AR	AR	AR	AR	AR
ACTN	AR	AR	AR	AR	AR	AR
AFJK	AR	AR	AR	AR	AR	AR
SUPP	AR	AR	AR	AR	AR	AR
AGAV	AR	AR	AR	AR	AR	AR
ZZZV	AR	AR	AR	AR	AR	AR
CXCY	AR	AR	AR	AR	AR	AR

## SECTION I

APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL			
NAME D ITEM NAME			
Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.			
Reply Instructions: Enter the applicable Item Name Code. (e.g., NAMED07741*)			
ALL			
AAFZ D BODY MATERIAL			
Definition: THE BASIC MATERIAL OF WHICH THE ITEM IS FABRICATED.			
Reply Instructions: Enter the applicable Reply Code from <a href="#">Appendix A</a> , Table 1. (e.g., AAFZDBN0046*; AAFZDBN0046\$\$DBN0047*; AAFZDBN0046\$DBN0047*)			
ALL*			
ACSH D SEAT MATERIAL			
Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE SEATING SURFACES ARE FABRICATED.			
Reply Instructions: Enter the applicable Reply Code from <a href="#">Appendix A</a> , Table 1. (e.g., ACSHDSTB000*; ACSHDSTB000\$\$DST1615*; ACSHDSTB000\$DST1615*)			
ALL*			
ABEP D STEM MATERIAL			
Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE STEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.			
Reply Instructions: Enter the applicable Reply Code from <a href="#">Appendix A</a> , Table 1. (e.g., ABEPDSC0000*; ABEPDSC0168\$\$DST1773*; ABEPDSC0168\$DST1773*)			
ALL*			
ADQT D PACKING MATERIAL			

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APP Key	MRC	Mode Code	Requirements						
Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE PACKING IS FABRICATED.									
Reply Instructions: Enter the applicable Reply Code from <a href="#">Appendix A</a> , Table 1. (e.g., ADQTDRC0000*; ADQTDRCL000\$\$DRCM000*; ADQTDRCL000\$DRCM000*)									
ALL *			Includes seal and lubricant packing material, excludes bonnet packing.						
<p>CCFG J VALVE SIZE</p> <p>Definition: DESIGNATES THE SIZE OF THE VALVE.</p> <p>Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CCFGJA0.250*, CCFGJL6.4*)</p>									
<table><thead><tr><th><u>REPLY CODE</u></th><th><u>REPLY (AA05)</u></th></tr></thead><tbody><tr><td>A</td><td>INCHES</td></tr><tr><td>L</td><td>MILLIMETERS</td></tr></tbody></table>				<u>REPLY CODE</u>	<u>REPLY (AA05)</u>	A	INCHES	L	MILLIMETERS
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>								
A	INCHES								
L	MILLIMETERS								
ALL									
ADQU D			FLOW CONTROL DEVICE						
Definition: THE PART THAT CONTROLS THE FLOW THROUGH THE ITEM.									
Reply Instructions: Enter the applicable Reply Code from <a href="#">Appendix A</a> , Table 6. (e.g., ADQUDAB*; ADQUDAA\$\$DAB*; ADQUDAA\$DAB*)									
ALL*									
ADQV D			FLOW CONTROL DEVICE MATERIAL						
Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE FLOW CONTROL DEVICE IS FABRICATED.									
Reply Instructions: Enter the applicable Reply Code from <a href="#">Appendix A</a> , Table 1. (e.g., ADQVDBR0000*; ADQVDBR0075\$\$DBR0076*; ADQVDBR0075\$DBR0076*)									
ALL*									
AAJP D			OUTSIDE SURFACE TREATMENT						

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SECTION I

APP Key	MRC	Mode Code	Requirements
Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS THE OUTSIDE SURFACE.			
Reply Instructions: Enter the applicable Reply Code from <a href="#">Appendix A</a> , Table 3. (e.g., AAJPD0001*; AAJPDCHA000\$\$DAN0001*; AAJPDCHA000\$DAN0001*)			
ALL			
ADQZ            A            END CONNECTION QUANTITY			
Definition: THE NUMBER OF END CONNECTIONS INCLUDED IN THE ITEM.			
Reply Instructions: Enter the quantity. (e.g., ADQZA2*)			
ALL*			
BZRS            G            END CONNECTION SPEC/STD			
Definition: THE SPECIFICATION AND/OR STANDARD OF THE END CONNECTION.			
Reply Instructions: Enter the reply in clear text.			
NOTE: FIRST, SECOND, THIRD, AND FOURTH ENDS WILL ALWAYS BE SELECTED IN ACCORDANCE WITH THE SEQUENCE GIVEN BY THE END CONNECTION TYPE TABLE.			
ALL*			
ACKM            D            FIRST END CONNECTION TYPE			
Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF END CONNECTION.			
Reply Instructions: See the End Connection Type Table preceding the End Style Designator MRCs ACKN, ACLT, ACMZ, and ACPG, and enter the applicable Reply Code from the table of replies which identifies the end connection being described. Then follow the instructions and answer the MRCs for the first end. (e.g., ACKMDAA*)			
NOTE FOR MRC ACLR: PROCEED TO THIS MRC AFTER ANSWERING ALL MRCs APPLICABLE TO FIRST END AND IF ITEM HAS A SECOND END; OTHERWISE PROCEED TO MRC AAQL.			

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APP Key	MRC	Mode Code	Requirements
ALL* (See Note Above)			

ACLR            D            SECOND END RELATIONSHIP WITH FIRST END

Definition: INDICATES WHETHER OR NOT THE SECOND END IS IDENTICAL TO THE FIRST END.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACLRDB\*)

<u>REPLY CODE</u>	<u>REPLY (AB78)</u>
B	IDENTICAL
F	NOT IDENTICAL

NOTE FOR MRCS ACLS, ACMX, AND AAQL: REPLY TO MRC ACMX IF REPLY CODE B IS ENTERED FOR MRC ACLR AND ITEM HAS MORE THAN TWO ENDS. REPLY TO MRC AAQL, IF ITEM HAS ONLY TWO ENDS. REPLY TO MRC ACLS, IF REPLY CODE F IS ENTERED FOR MRC ACLR.

ALL\* (See Note Above)

ACLS            D            SECOND END CONNECTION TYPE

Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF END CONNECTION.

Reply Instructions: See the End Connection Type Table preceding the End Style Designator MRCS ACKN, ACLT, ACMZ, and ACPG, and enter the applicable Reply Code from the table of replies which identifies the end connection being described. Then follow the instructions and answer the MRCs for the second end. (e.g., ACLSDAA\*)

NOTE FOR MRCS ACMX AND AAQL: AFTER ANSWERING ALL MRCS APPLICABLE TO THE SECOND END, PROCEED TO MRC ACMX IF ITEM HAS A THIRD END; OTHERWISE PROCEED TO MRC AAQL.

ALL\* (See Note Above and Preceding MRC ACLS)

ACMX            D            THIRD END RELATIONSHIP WITH PRECEDING ENDS

Definition: INDICATES WHETHER OR NOT THE THIRD END IS IDENTICAL WITH FIRST OR SECOND END.

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APP Key	MRC	Mode Code	Requirements
Reply Instructions: Enter the applicable Reply Code from the table below. When all three ends are identical, enter Reply Code C. (e.g., ACMXDG*)			

<u>REPLY CODE</u>	<u>REPLY (A B78)</u>
C	IDENTICAL WITH FIRST END
D	IDENTICAL WITH SECOND END
G	NOT IDENTICAL WITH FIRST OR SECOND END

NOTE: IF REPLY CODE C OR D IS ENTERED IN REPLY TO MRC ACMX, AND THE ITEM HAS MORE THAN THREE ENDS, PROCEED TO MRC ACPE. IF ITEM HAS ONLY THREE ENDS, PROCEED TO MRC AAQL. IF REPLY CODE G IS ENTERED IN REPLY TO MRC ACMX, PROCEED TO MRC ACMY.

ALL\* (See Note Above)

ACMY      D      THIRD END CONNECTION TYPE

Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF END CONNECTION.

Reply Instructions: See the End Connection Type Table preceding the End Style Designator MRCs ACKN, ACLT, ACMZ, and ACPG, and enter the applicable Reply Code from the table of replies which identifies the end connection being described. Then follow the instructions and answer the MRCs for the third end. (e.g., ACMYDAS\*)

NOTE FOR MRCS ACPE AND AAQL: AFTER ANSWERING ALL MRCS APPLICABLE TO THIRD END, PROCEED TO MRC ACPE IF ITEM HAS A FOURTH END; OTHERWISE, PROCEED TO MRC AAQL.

ALL\* (See Note Above and Preceding MRC ACMY)

ACPE      D      FOURTH END RELATIONSHIP WITH PRECEDING ENDS

Definition: INDICATES WHETHER OR NOT THE FOURTH END IS IDENTICAL WITH THE FIRST, SECOND, OR THIRD END.

Reply Instructions: Enter the applicable Reply Code from the table below. When all four ends are identical, enter Reply Code C. (e.g., ACPEDC\*)

<u>REPLY CODE</u>	<u>REPLY (A B78)</u>

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APP Key	MRC	Mode Code	Requirements
	C		IDENTICAL WITH FIRST END
	D		IDENTICAL WITH SECOND END
	E		IDENTICAL WITH THIRD END
	H		NOT IDENTICAL WITH FIRST, SECOND OR THIRD END

NOTE: IF REPLY CODE C, D, OR E IS ENTERED IN REPLY TO MRC ACPE, PROCEED TO MRC AAQL. IF REPLY CODE H IS ENTERED IN REPLY TO MRC ACPE, PROCEED TO MRC ACPR.

ALL\* (See Note Above)

ACPF            D            FOURTH END CONNECTION TYPE

Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF END CONNECTION.

Reply Instructions: See the End Connection Type Table preceding the End Style Designator MRCs ACKN, ACLT, ACMZ, and ACPG, and enter the applicable Reply Code from the table of replies which identifies the end connection being described. Then follow the instructions and answer the MRCs for the fourth end. (e.g., ACPFDAA\*)

ALL (See Notes Preceding MRCs ACLS, ACMX and ACMY)

AAQL            L            BODY STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE BODY.

Reply Instructions: Refer to [Appendix B](#), Reference Drawing Group A, and enter the group designator followed by the style number. (e.g., AAQLLA1\*)

D, E\*, F\*

ACKL            D            MEDIA FOR WHICH DESIGNED

Definition: THE TYPE OF SERVICE WITH WHICH THE ITEM IS DESIGNED TO BE USED.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., ACKLDBB\*: ACKLDBB\$\$DED\*; ACKLDBB\$DED\*)

B, C

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SECTION I

APP Key	MRC	Mode Code	Requirements
	AEVK	J	PRESSURE RATING

Definition: THE PRESSURE AT WHICH AN ITEM IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., AEVKJVA25.0\*; AEVKJKA4465.0\*; AEVKJVB150.0\$\$JVC200.0\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (A B18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
V	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (A C20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

A

AESJ	J	MAXIMUM PRESSURE DROP
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Definition: THE MAXIMUM PRESSURE LOSS BETWEEN THE INLET SIDE AND THE OUTLET SIDE OF AN ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AESJJV10.560\*; AESJK186.6\*)

<u>REPLY CODE</u>	<u>REPLY (A B18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
V	POUNDS PER SQUARE INCH

A

AEVL	D	VALVE ACTUATING METHOD
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Definition: THE MEANS USED TO CONTROL A VALVE OPENING.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVLDB\*)

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APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AB49)</u>
		B	AIR DIAPHRAGM
		F	MECHANICAL LINKAGE
		C	THERMAL HYDRAULIC
		D	THERMAL MECHANICAL LINKAGE
		E	WATER LEVEL MECHANICAL LINKAGE

E\*

AEVM      D      TWO-WAY VALVE ACTION

Definition: AN INDICATION OF THE ACTION OF A TWO-WAY VALVE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVMDB\*)

<u>REPLY CODE</u>	<u>REPLY (AD44)</u>
B	DIRECT ACTING
C	REVERSE ACTING

ALL\*

ADZJ      D      MOUNTING FACILITY

Definition: THE MEANS OTHER THAN THE END CONNECTION(S) BY WHICH THE ITEM MAY BE MOUNTED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADZJDH\*; ADZJDK\$\$DB\*; ADZJDB\$DK\*)

If valve mounts by end connection, omit reply.

<u>REPLY CODE</u>	<u>REPLY (AC70)</u>
K	BOLTS
F	BRACKET
B	CLAMP
H	EXTERNAL THREAD
G	FLANGE
J	INTERNAL THREAD
D	LUG
E	PANEL
L	STUD

FIIG A211  
SECTION I

APP Key	MRC	Mode Code	Requirements
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D\*, E\*, F\*

ADZH        D            RENEWABLE SEAT RING TYPE

Definition: INDICATES THE TYPE OF RENEWABLE SEATING RING IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADZHDAA\*; ADZHDAL\$\$DAD\*; ADZHDAD\$DAL\*)

<u>REPLY CODE</u>	<u>REPLY (A C69)</u>
AA	BOLTED
AB	BONDED
AC	PRESSED-IN
AL	RETAINING RING
AD	RETAINING SCREW
AE	THREADED
AF	WELDED

B, C, D, F\*

AEVN        D            REGULATION TYPE

Definition: THE BASIC DESIGN TYPE USED FOR REGULATING THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVNDB\*; AEVNDD\$\$DK\*; AEVNDD\$DK\*)

<u>REPLY CODE</u>	<u>REPLY (AD45)</u>
C	AUTOMATIC DOUBLE STAGE
B	AUTOMATIC SINGLE STAGE
K	MANUAL, DOUBLE STAGE
D	MANUAL, SINGLE STAGE
E	1ST STAGE AUTOMATIC, 2ND STAGE MANUAL
F	1ST STAGE MANUAL, 2ND STAGE AUTOMATIC

NOTE: REPLY TO MRC AEVP ONLY WHEN REPLY TO MRC AEVN IS OTHER THAN B OR C.

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SECTION I

APP Key	MRC	Mode Code	Requirements
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B\*, C\*, D\*, F\* (See Note Above)

AEVP      D      MANUAL CONTROL METHOD

Definition: THE MEANS USED TO MANUALLY ADJUST THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVPDAU\*; AEVPDAH\$\$DAAJR\*; AEVPDAH\$DAAJR\*)

<u>REPLY CODE</u>	<u>REPLY (AC58)</u>
BK	KNOB
AH	LEVER
AAJR	LEVER W/WEIGHTS
AU	SCREW
AR	TEE HANDLE
AV	WHEEL
AT	WRENCH

D\*

AEVQ      D      VALVE STEM DESIGN

Definition: THE SEAT DESIGN OF THE VALVE STEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVQDB\*; AEVQDB\$DC\*)

<u>REPLY CODE</u>	<u>REPLY (AD46)</u>
B	DOUBLE SEAT
C	SINGLE SEAT

D

AEVR      D      VALVE LOADING METHOD

Definition: THE MEANS OF PROVIDING RESISTANCE TO THE MEDIA PASSING THROUGH A VALVE, WHEREBY THE VALVE IS ACTUATED TO REGULATE THE FLOW.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVRDB\*; AEVRDB\$\$DC\*; AEVRDB\$DC\*)

<u>REPLY CODE</u>	<u>REPLY (AC63)</u>
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SECTION I

APP Key	MRC	Mode Code	Requirements
		F	BELLOWS
		D	DOME
		B	SPRING
		C	WEIGHT

D\*

AEVS            D            REMOTE ACTUATION METHOD

Definition: THE MEANS WHEREBY A VALVE IS ACTUATED OTHER THAN BY THE MEDIA PASSING THROUGH IT.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVSDB\*; AEVSDK\$\$DL\*; AEVSDK\$DL\*)

<u>REPLY CODE</u>	<u>REPLY (AD04)</u>
J	BELLOWS
B	DIAPHRAGM
D	PISTON
K	SOLENOID
L	SPOOL

E\*

AEWJ            D            THERMOSTATIC ELEMENT

Definition: THE BASIC DESIGN TYPE OF THE THERMOSTATIC ELEMENT USED IN TRANSMITTING THE TEMPERATURE OF A LIQUID OR GAS.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEWJDC\*: AEWJDE\$\$DF\*; AEWJDE\$DF\*)

<u>REPLY CODE</u>	<u>REPLY (AD47)</u>
B	DUCT TYPE
E	FINNED
F	INTEGRAL W/VALVE
C	LIQUID IMMERSION TYPE
D	ROOM TYPE
H	SHELL, TENT HEATER
G	STRAP TO PIPE

FIIG A211  
SECTION I

APP Key	MRC	Mode Code	Requirements
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NOTE FOR MRCS AEVT, AEVU, AEVV AND AEVW: IF MULTIPLE REPLY CODES ARE ENTERED IN REPLY TO MRC AEWJ, USE AND CODING ENTERING REPLIES IN THE SAME SEQUENCE AS MRC AEWJ.

E\* (See Note Above)

AEVT        J        CAPILLARY TUBE LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF A CAPILLARY TUBE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AEVTJAA12.000\*; AEVTJLA304.8\*; AEVTJAA12.000\$\$JAA15.000\*; AEVTJAB12.000\$\$JAC12.500\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

E\* (See Note Preceding MRC AEVT)

AEVU        J        BULB LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF A BULB.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AEVUJAA3.500\*; AEVUJLA96.4\*; AEVUJAA3.500\$\$JAA3.500\*; AEVUJAB3.500\$\$JAC3.750\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM

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SECTION I

APP Key	MRC	Mode Code	Requirements
	C		MAXIMUM

E\* (See Note Preceding MRC AEVT)

AEVV J BULB DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE BULB, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AEVVJAA0.250\*; AEVVJLA6.9\*; AEVVJAA0.250\$\$JAC0.275\*; AEVVJAA0.0250\$\$JAA0.375\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

E\* (See Note Preceding MRC AEVT)

AEVW D BULB MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE BULB IS FABRICATED.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., AEWDU0000\*; AEWDCK0001\$\$DCK0002\*; AEWDCK0001\$DCK0002\*)

E

AEVX D TEMP ADJUSTABILITY

Definition: AN INDICATION OF WHETHER OR NOT THE TEMPERATURE IS ADJUSTABLE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVXDB\*; AEVXDB\$DC\*)

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SECTION I

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AC06)</u>
		B	ADJUSTABLE
		C	NOT ADJUSTABLE
A*, B*, C*, D*, E, F*			
AZKQ	J		TEMP RATING

Definition: A VALUE WHICH EXPRESSES THE DEGREE OF HEAT OR COLD AS APPLIED TO THE OPERATION, OR LIMITATION OF OPERATION, OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Precede negative values with an M. (e.g., AZKQJCAM50.0\*)

Without an M, the value will be assumed to be above zero (Positive). (e.g., AZKQJCA150.0\*; AZKQJCBM50.0\$\$JCC100.0\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB36)</u>
C	DEG CELSIUS
F	DEG FAHRENHEIT

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

A, D, E\*, F\*

AEVZ J MAXIMUM INLET PRESSURE RATING

Definition: THE MAXIMUM PRESSURE OF THE MEDIA ON THE INLET SIDE AT WHICH AN ITEM IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AEVZJV200.0\*; AEVZJK14062.0\*)

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SECTION I

APP Key	MRC	Mode Code	Requirements
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<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
V	POUNDS PER SQUARE INCH

D\*

AEWA J OUTLET PRESSURE SETTING

Definition: THE SET (NONADJUSTABLE) PRESSURE OF THE MEDIA ON THE OUTLET SIDE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AEWAJV150.0\*; AEWAJK10346.5\*)

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
V	POUNDS PER SQUARE INCH

D\*

AEVA J OUTLET PRESSURE RANGE

Definition: THE MINIMUM TO MAXIMUM LIMITS OF OUTLET PRESSURE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash, preceded by a P. (e.g., AEVAJVP25.0/P400.0\*; AEVAJKP55.0/P1757.7\*)

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
V	POUNDS PER SQUARE INCH

D

AEWB J OUTLET PRESSURE ACCURACY RATING

Definition: THE RATED VARIANCE OF THE OUTLET PRESSURE FROM THE SET PRESSURE.

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SECTION I

APP Key	MRC	Mode Code	Requirements
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Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AEWBJV0.500\*; AEWBJK351.5\*)

<u>REPLY CODE</u>	<u>REPLY (A B18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
V	POUNDS PER SQUARE INCH

F

ADSY            J            VALVE DISCHARGE FLOW RATE

Definition: THE RATED VALVE DISCHARGE CAPACITY PER UNIT OF TIME.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ADSYJM30.0\*; ADSYJE10.5\$\$JE40.5\*)

<u>REPLY CODE</u>	<u>REPLY (AC64)</u>
M	GALLONS PER MINUTE
Y	IMPERIAL GALLONS PER MINUTE
E	LITERS PER MINUTE

B\*

AEWD            J            BYPASS FLOW RATE

Definition: THE RATED BYPASS DISCHARGE CAPACITY PER UNIT OF TIME.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AEWDJA25.0\*)

<u>REPLY CODE</u>	<u>REPLY (AC64)</u>
A	CUBIC FEET PER MINUTE
C	CUBIC METERS PER MINUTE
M	GALLONS PER MINUTE
Y	IMPERIAL GALLONS PER MINUTE
W	KILOGRAMS PER HOUR
E	LITERS PER MINUTE
V	POUND PER HOUR

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SECTION I

APP Key	MRC	Mode Code	Requirements
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NOTE FOR MRC AEWE: REPLY TO THIS MRC IF A POSITIVE REPLY IS GIVEN TO MRC AEWD.

B\* (See Note Above)

AEWE      J      BYPASS INLET PRESSURE RATING

Definition: THE RATED PRESSURE OF THE MEDIA ON THE INLET SIDE OF THE BYPASS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AEWEJVA100.0\*; AEWEJKA3515.0\*; AEWEJVB50.0\$\$JVC100.0\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
V	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

D

AEWF      D      FILTER

Definition: AN INDICATION OF WHETHER OR NOT A FILTER IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEWFD\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL\*

ABFF      D      FURNISHED ITEMS

FIIG A211  
SECTION I

APP Key	MRC	Mode Code	Requirements
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Definition: ITEMS FURNISHED AS ACCESSORIES WHICH ARE NOT SPECIFIED ELSEWHERE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 5. (e.g., ABFFDCS\*)

For multiple items, list replies in alphabetic sequence by Reply Code. (e.g., ABFFDCS\$\$DCT\*: ABFFDCS\$DCT\*)

NOTE FOR MRCS AEWG, ABWC, AND AEWH: IF REPLY TO MRC ABFF IS CQ, CR, CU, CX, OR CZ, REPLY TO MRCS AEWG, ABWC, AND AEWH. IF MORE THAN ONE GAGE IS FURNISHED, REPLY IN THE SAME SEQUENCE AS IN MRC ABFF.

ALL\* (See Note Above)

AEWG #      J            DIAL OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE DIAL, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the outside diameter. (e.g., AEWGJA2.500\*; AEWGJL76.2\*; AEWGJA3.000\$\$JA4.000\*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL\* (See Note Preceding MRC AEWG)

ABWC #      D            SCALE UNIT OF MEASURE INSCRIPTION

Definition: THE STANDARD OF VALUATION AS REPRESENTED BY THE INSCRIPTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ABWCDBG\*; ABWCDBJ\$\$DAW\*)

<u>REPLY CODE</u>	<u>REPLY (AB49)</u>
BD	CUBIC FEET PER MINUTE
BE	DEG CELSIUS
BF	DEG FAHRENHEIT
BG	GALLONS PER MINUTE

**FIIG A211**  
**SECTION I**

APP Key	MRC	Mode Code	Requirements
	BH		KILOGRAMS PER SQUARE CENTIMETER
	BJ		POUNDS PER HOUR
	AW		POUNDS PER SQUARE INCH

**ALL\*** (See Note Preceding MRC AEWG)

**AEWH #**      **F**            **DIAL RANGE**

**Definition:** THE MINIMUM AND MAXIMUM LIMITS OF VARIATION IN CAPACITY THAT A DIAL WILL MEASURE.

**Reply Instructions:** Enter the value in numeric ascending sequence, separated by a slash. Precede negative values with an M and positive values with a P. (e.g., AEWHP5.0/P100.0\*; AEWFM5.0/P100.0\*; AEWHP5.0/P100.0\$\$FP10.0/P120.0\*)

**ALL\***

**FEAT**          **G**            **SPECIAL FEATURES**

**Definition:** THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

**Reply Instructions:** Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATADJUSTABLE NOSE CLIP\*; FEATADJUSTABLE NOSE PIECE; DISPOSABLE\*)

**ALL\***

**TEST**          **J**            **TEST DATA DOCUMENT**

**Definition:** THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

**Reply Instructions:** Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

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SECTION I

APP Key	MRC	Mode Code	Requirements
(e.g., TESTJA12345-CWX654321*; TESTJA1234A-654321\$\$JB5556A-663654*; TESTJAA2345-654321\$JB55566-663654*)			
<u>REPLY</u> <u>CODE</u>			<u>REPLY (AC28)</u>
A			SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)
B			STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)
C			DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)

ALL\*

SPCL            G            SPECIAL TEST FEATURES

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLG SELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS\*)

ALL\*

ZZZK            J            SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

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APP Key	MRC	Mode Code	Requirements
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.			
			(e.g., ZZZKJT81337-30642B*;
			ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;
			ZZZKJP80205-NAS1103*;
			ZZZKJS81349-MIL-C-1140C/CE/*;
			ZZZKJT81337-30642B\$\$JP80205-NAS1103*)

<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STANDARD/SPECIFICATION
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL\* (See Note Above)

ZZZT            J            NONDEFINITIVE SPEC/STD DATA

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SECTION I

APP Key	MRC	Mode Code	Requirements
Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.			
Reply Instructions: Enter the applicable Reply Code from <a href="#">Appendix A</a> , Table 7, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1\$\$JSTA*; ZZZTJTY1\$JSTA*)			
ALL*			
ZZZX            G            DEPARTURE FROM CITED DESIGNATOR			
Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.			
Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)			
ALL*			
ZZZY            G            REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS			
Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.			
Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)			
ALL*			
CRTL            A            CRITICALITY CODE JUSTIFICATION			
Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.			
Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)			

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SECTION I

APP Key	MRC	Mode Code	Requirements
Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.			
NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.			
ALL* (See Note Above)			
PRPY	A		PROPRIETARY CHARACTERISTICS
Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.			
Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$\$ASURF*)			
ALL*			
ELRN	G		EXTRA LONG REFERENCE NUMBER
Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.			
Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).			
If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).			
In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.			

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APP Key	MRC	Mode Code	Requirements
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NOTE FOR MRC NHCF: IF THE CRITICALITY CODE IS E, H, OR M, REPLY TO MRC NHCF.

ALL\* (See Note Above)

NHCF D NUCLEAR HARDNESS CRITICAL FEATURE

Definition: AN INDICATION OF THE NUCLEAR HARDNESS CRITICALITY OF THE ITEM.

Reply Instructions: Enter the Reply Code from the table below. (e.g., NHCFDCY\*)

<u>REPLY CODE</u>	<u>REPLY (AD05)</u>
CY	HARDENED

ALL\*

ELCD D EXTRA LONG CHARACTERISTIC DESCRIPTION

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA\*)

<u>REPLY CODE</u>	<u>REPLY (AN58)</u>
A	ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD

INSTRUCTIONS: For each Reply Code on the table, END CONNECTION TYPE, numbers ranging from 1 through 15 appear under APPLICABLE REQUIREMENT NUMBERS. These numbers represent specific end data characteristic requirements which are defined on the following pages. When describing the individual ends connection type nearest the top of the following listing will always represent the first end, the second nearest the top will be the second end, etc. Select largest end first when two or more end types are the same but are of different sizes.

<u>END CONNECTION TYPE</u>	<u>REPLY CODE</u>	<u>REPLY (AB76)</u>	<u>APPLICABLE REQUIREMENT NUMBERS</u>
AA		THREADED INTERNAL TUBE	1, 9, 10, must have either 11 or 12 as applicable, 13,

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**SECTION I**

APP Key	MRC	Mode Code	Requirements
			may have 14 or 15 as applicable
		AB	1, 9
			UNTHREADED INTERNAL TUBE
		AC	1, 9, 10, must have either 11 or 12 as applicable, 13, may have 14 or 15 as applicable
			THREADED EXTERNAL TUBE
		AD	1, 9
			UNTHREADED EXTERNAL TUBE
		AE	1, 10, 13
			THREADED INTERNAL PIPE
		AF	1, 8
			UNTHREADED INTERNAL PIPE
		AG	1, 10, 13
			THREADED EXTERNAL PIPE
		AH	1, 10, 13
			THREADED EXTERNAL AND INTERNAL PIPE
		AJ	1, 8
			UNTHREADED EXTERNAL PIPE
		AK	1, 2, 3, 4 as applicable, 5
			RECESSED FLANGE
		AL	1, 2, 3, 4 as applicable, 5
			RAISED FACE FLANGE
		AM	1, 3, 4 as applicable, 5
			PLAIN FACE FLANGE
		BD	1, 8
		BE	1, 9
		AP	1, 6, 10, 12, 13
			INTERNAL HOSE
		AQ	1, 6, 7
			UNTHREADED INTERNAL HOSE
		AR	1, 7, 10, 12, 13
			THREADED EXTERNAL HOSE
		AS	1, 7
			UNTHREADED EXTERNAL HOSE
		AT	1, 10, 12, 13
			THREADED INTERNAL GAS CYLINDER
		AU	1, 10, 12, 13
			THREADED EXTERNAL GAS CYLINDER
		AV	1, 10, 11 or 12, 13
			THREADED INTERNAL BOSS
		AW	1, 10, 11 or 12, 13
			THREADED EXTERNAL BOSS
		WY	10
		WZ	THREADED CARTRIDGE
			UNTHREADED
			10

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APP Key	MRC	Mode Code	Requirements
CARTRIDGE			
ALL* (1)			
	ACKN	L	FIRST END STYLE DESIGNATOR
ALL* (1)			
	ACLT	L	SECOND END STYLE DESIGNATOR
ALL* (1)			
	ACMZ	L	THIRD END STYLE DESIGNATOR
ALL* (1)			
	ACPG	L	FOURTH END STYLE DESIGNATOR
<p>Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE END.</p> <p>Reply Instructions: Refer to <a href="#">Appendix B</a>, Reference Drawing Group B, C, D, E, F, or G, and enter the Reference Drawing Group, followed by the applicable style number. (e.g., ACKNLE10*)</p>			
ALL* (3)			
	ACKT	L	FIRST END FLANGE SHAPE STYLE
ALL* (3)			
	ACLY	L	SECOND END FLANGE SHAPE STYLE
ALL* (3)			
	ACNF	L	THIRD END FLANGE SHAPE STYLE
ALL* (3)			
	ACPM	L	FOURTH END FLANGE SHAPE STYLE
<p>Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE SHAPE OF THE END FLANGE.</p> <p>Reply Instructions: Refer to <a href="#">Appendix B</a>, Reference Drawing Group H and enter the applicable flange shape number. (e.g., ACKTL2*)</p>			

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SECTION I

APP Key	MRC	Mode Code	Requirements
For flanges without bolt holes, enter the shape number followed by the letter A. (e.g., ACKTL2A*)			
ALL* (4)			
	ACKZ	A	FIRST END BOLT HOLE QUANTITY
ALL* (4)			
	ACMF	A	SECOND END BOLT HOLE QUANTITY
ALL* (4)			
	ACNN	A	THIRD END BOLT HOLE QUANTITY
ALL* (4)			
	ACPU	A	FOURTH END BOLT HOLE QUANTITY
Definition: THE NUMBER OF BOLT HOLES PROVIDED ON THE ITEM.			
Reply Instructions: Enter the quantity. If the flange is without bolt holes, omit reply. (e.g., ACKZA6*)			
ALL* (6)			
	ACLE	J	FIRST END INSIDE DIAMETER HOSE ACCOMMODATED
ALL* (6)			
	ACML	J	SECOND END INSIDE DIAMETER HOSE ACCOMMODATED
ALL* (6)			
	ACNT	J	THIRD END INSIDE DIAMETER HOSE ACCOMMODATED
ALL* (6)			
	ACPZ	J	FOURTH END INSIDE DIAMETER HOSE ACCOMMODATED

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SECTION I

APP Key	MRC	Mode Code	Requirements
Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.			
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACLEJAA0.500*; ACLEJLA12.7*; ACLEJAB0.480\$\$JAC0.520*)			

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (7)

ACLF      J      FIRST END OUTSIDE DIAMETER HOSE  
ACCOMMODATED

ALL\* (7)

ACMM      J      SECOND END OUTSIDE DIAMETER HOSE  
ACCOMMODATED

ALL\* (7)

ACNU      J      THIRD END OUTSIDE DIAMETER HOSE  
ACCOMMODATED

ALL\* (7)

ACQA      J      FOURTH END OUTSIDE DIAMETER HOSE  
ACCOMMODATED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED HOSE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

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SECTION I

APP Key	MRC	Mode Code	Requirements		
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACLFJAA0.750*; ACLFJLA19.0*; ACLFJAB0.750\$\$JAC0.850*)					
<u>Table 1</u>					
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>		
		A	INCHES		
		L	MILLIMETERS		
<u>Table 2</u>					
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>		
		A	NOMINAL		
		B	MINIMUM		
		C	MAXIMUM		
ALL* (8)					
ACLG	J	FIRST END NOMINAL PIPE SIZE ACCOMMODATED			
ALL* (8)					
ACMN	J	SECOND END NOMINAL PIPE SIZE ACCOMMODATED			
ALL* (8)					
ACNV	J	THIRD END NOMINAL PIPE SIZE ACCOMMODATED			
ALL* (8)					
ACQB	J	FOURTH END NOMINAL PIPE SIZE ACCOMMODATED			
Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE NOMINAL DIAMETER OF THE PIPE THE END WILL ACCOMMODATE.					
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ACLGJA0.250*; ACLGJL6.4*)					
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>		
		A	INCHES		
		L	MILLIMETERS		

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SECTION I

APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL* (9)			
ACLH         J                   FIRST END OUTSIDE DIAMETER TUBE ACCOMMODATED			
ALL* (9)			
ACMP         J                   SECOND END OUTSIDE DIAMETER TUBE ACCOMMODATED			
ALL* (9)			
ACNW         J                   THIRD END OUTSIDE DIAMETER TUBE ACCOMMODATED			
ALL* (9)			
ACQC         J                   FOURTH END OUTSIDE DIAMETER TUBE ACCOMMODATED			

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATED TUBE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACLHJAA0.625\*; ACLHJLA15.8\*;  
ACLHJAB0.625\$\$JAC0.750\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (10)

    ACLJ         J                   FIRST END THREAD SIZE AND SERIES/TYPE

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SECTION I

APP Key	MRC	Mode Code	Requirements
DESIGNATOR			
ALL* (10)			
ACMQ	J		SECOND END THREAD SIZE AND SERIES/TYPE DESIGNATOR
ALL* (10)			
ACNX	J		THIRD END THREAD SIZE AND SERIES/TYPE DESIGNATOR
ALL* (10)			
ACQD	J		FOURTH END THREAD SIZE AND SERIES/TYPE DESIGNATOR

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the applicable I/SAC Reply Code from the table below, followed by the Mode Code and the applicable Reply Code from [Appendix A](#), Table 4, followed by the thread diameter and number of threads per specified length.

(e.g., ACLJ1CJBL1/4-18\*;

ACLJ1BJBL1/4-18\*;

*ACLJ1BJBL1/2-14\$\$1AJBL2.500\*)*

<u>I/SAC REPLY CODE</u>	<u>REPLY (0091)</u>
1C	BOTH INTERNAL AND EXTERNAL
1B	EXTERNAL
1A	INTERNAL

ALL\* (11)

ACKL      A      FIRST END THREAD CLASS

ALL\* (11)

ACMR      A      SECOND END THREAD CLASS

ALL\* (11)

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SECTION I

APP Key	MRC	Mode Code	Requirements
	ACNY	A	THIRD END THREAD CLASS
ALL* (11)			
	ACQE	A	FOURTH END THREAD CLASS
			Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.
			Reply Instructions: Enter the thread class. If threads are UNS or NONSTANDARD series and the thread class cannot be given, omit reply and reply to requirement 12. (e.g., ACLKA1A*)
ALL* (12)			
	ADRN	J	FIRST END THREAD PITCH DIAMETERS
ALL* (12)			
	ADRP	J	SECOND END THREAD PITCH DIAMETERS
ALL* (12)			
	ADRQ	J	THIRD END THREAD PITCH DIAMETERS
ALL* (12)			
	ADRR	J	FOURTH END THREAD PITCH DIAMETERS
			Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.
			Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values. Precede each value with the letter P. (e.g., ADRNJAP0.2157/P0.2195*; ADRNJLP5.4/P5.5*)
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
ALL* (13)			
	ACLL	D	FIRST END THREAD DIRECTION
ALL* (13)			

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SECTION I

APP Key	MRC	Mode Code	Requirements
	ACMS	D	SECOND END THREAD DIRECTION
ALL* (13)			
	ACNZ	D	THIRD END THREAD DIRECTION
ALL* (13)			
	ACQF	D	FOURTH END THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

*Reply Instructions: Enter the applicable I/SAC Reply Code from Table 1 below, followed by the Mode Code and the applicable Reply Code from Table 2 below. (e.g., ACLL1CDR\*; ACLL1BDR\*; ACLL1BDL\$\$1ADR\*)*

All dryseal pipe threads are right-hand.

Table 1

<u>I/SAC REPLY CODE</u>	<u>Reply (0091)</u>
1C	BOTH INTERNAL AND EXTERNAL
1B	EXTERNAL
1A	INTERNAL

Table 2

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
L	LEFT-HAND
R	RIGHT-HAND

ALL\* (14)

ACTE      B      FIRST END SEAT ANGLE IN DEG

ALL\* (14)

ACTF      B      SECOND END SEAT ANGLE IN DEG

ALL\* (14)

ACTG      B      THIRD END SEAT ANGLE IN DEG

ALL\* (14)

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SECTION I

APP Key	MRC	Mode Code	Requirements
	ACTH	B	FOURTH END SEAT ANGLE IN DEG
Definition: THE ANGLE OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.			
Reply Instructions: Enter the numeric value. (e.g., ACTEB12.5*)			
ALL* (15)			
	ACTK	J	FIRST END SEAT RADIUS
ALL* (15)			
	ACTL	J	SECOND END SEAT RADIUS
ALL* (15)			
	ACTM	J	THIRD END SEAT RADIUS
ALL* (15)			
	ACTN	J	FOURTH END SEAT RADIUS
Definition: THE RADIUS OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS.			
Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACTKJAA0.062*; ACTKJLA1.6*; ACTKJAB0.062\$\$JAC0.075*)			
<u>Table 1</u>			
<u>REPLY CODE</u>		<u>REPLY (AA05)</u>	
A		INCHES	
L		MILLIMETERS	
<u>Table 2</u>			
<u>REPLY CODE</u>		<u>REPLY (AC20)</u>	
A		NOMINAL	
B		MINIMUM	
C		MAXIMUM	

## SECTION III

APP Key	MRC	Mode Code	Requirements						
<hr/>									
ALL									
	AFJK	J	CUBIC MEASURE						
Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.									
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFJKJF10.25*: AFJKJE0.2*)									
<table><thead><tr><th><u>REPLY CODE</u></th><th><u>REPLY (AD42)</u></th></tr></thead><tbody><tr><td>F</td><td>CUBIC FEET</td></tr><tr><td>E</td><td>CUBIC METERS</td></tr></tbody></table>				<u>REPLY CODE</u>	<u>REPLY (AD42)</u>	F	CUBIC FEET	E	CUBIC METERS
<u>REPLY CODE</u>	<u>REPLY (AD42)</u>								
F	CUBIC FEET								
E	CUBIC METERS								
ALL									
SUPP		G	SUPPLEMENTARY FEATURES						
Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.									
Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)									
ALL									
AGAV		G	END ITEM IDENTIFICATION						
Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.									
Reply Instructions: Enter the reply in clear text. (e.g., AGAVG3930-00-000-0000*; AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)									
ALL									

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SECTION I

APP Key	MRC	Mode Code	Requirements
ZZZV	G		FSC APPLICATION DATA
Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.			
Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGFUEL SYSTEM, GASOLINE ENGINE, NONAIRCRAFT*)			
ALL			
CXY			
G			
PART NAME ASSIGNED BY CONTROLLING AGENCY			
Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.			
Reply Instructions: Enter the reply in clear text. (e.g., CXYGLINE PROCESSOR CONTROL BOARD*)			

## Reply Tables

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**Table 1 - MATERIALS**  
**MATERIALS**

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ALC000	ALUMINUM
AL0000	ALUMINUM ALLOY
AL0185	ALUMINUM ALLOY, AMS 4001
AL0186	ALUMINUM ALLOY, AMS 4023
AL0869	ALUMINUM ALLOY, AMS 4117
AL1506	ALUMINUM ALLOY, MIL-A-8097-CANCELED
AL1507	ALUMINUM ALLOY, MIL-A-8097, T6-CANCELED
AL0187	ALUMINUM ALLOY, QQ-A-200/1, ALLOY 3003, 0
AL0189	ALUMINUM ALLOY, QQ-A-200/1, ALLOY 3003, F
AL0188	ALUMINUM ALLOY, QQ-A-200/1, ALLOY 3003, H112
AL0030	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014
AL0190	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, 0
AL0191	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T4
AL0195	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T6
AL0192	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T42
AL0196	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T62
AL0193	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T4510
AL0194	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T4511
AL0197	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T6510

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0198	ALUMINUM ALLOY, QQ-A-200/2, ALLOY 2014, T6511
AL0031	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024
AL0199	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, O
AL0202	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T4
AL0203	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T42
AL0206	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T81
AL0200	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T3510
AL0201	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T3511
AL0204	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T8510
AL0205	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T8511
AL0032	ALUMINUM ALLOY, QQ-A-200/4, ALLOY 5083
AL0207	ALUMINUM ALLOY, QQ-A-200/4, ALLOY 5083, 0
AL0208	ALUMINUM ALLOY, QQ-A-200/4, ALLOY 5083, H111
AL0209	ALUMINUM ALLOY, QQ-A-200/4, ALLOY 5083, H112
AL0033	ALUMINUM ALLOY, QQ-A-200/5, ALLOY 5086
AL0210	ALUMINUM ALLOY, QQ-A-200/5, ALLOY 5086, 0
AL0211	ALUMINUM ALLOY, QQ-A-200/5, ALLOY 5086, H111
AL0212	ALUMINUM ALLOY, QQ-A-200/5, ALLOY 5086, H112
AL0034	ALUMINUM ALLOY, QQ-A-200/6, ALLOY 5454
AL0213	ALUMINUM ALLOY, QQ-A-200/6, ALLOY 5454, 0
AL0214	ALUMINUM ALLOY, QQ-A-200/6, ALLOY 5454, H111
AL0215	ALUMINUM ALLOY, QQ-A-200/6, ALLOY 5454, H112
AL0035	ALUMINUM ALLOY, QQ-A-200/7, ALLOY 5456
AL0216	ALUMINUM ALLOY, QQ-A-200/7, ALLOY 5456, 0
AL0217	ALUMINUM ALLOY, QQ-A-200/7, ALLOY 5456, H111
AL0218	ALUMINUM ALLOY, QQ-A-200/7, ALLOY 5456, H112
AL0037	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062
AL0219	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, 0
AL0220	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T4
AL0221	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, 51

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0222	T6 ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T42
AL0223	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T4510
AL0224	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T4511
AL0225	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T6510
AL0226	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T6511
AL0038	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063
AL0227	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, 0
AL0228	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, T1
AL0229	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, T4
AL0230	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, T5
AL0231	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, T6
AL0039	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066
AL0232	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, 0
AL0233	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T4
AL0237	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T6
AL0234	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T42
AL0238	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T62
AL0235	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, 4510
AL0236	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, 4511
AL0239	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T6510
AL0240	ALUMINUM ALLOY, QQ-A-200/10, ALLOY 6066, T6511
AL0040	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075
AL0241	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, 0
AL0242	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, T6
AL0245	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, T73
AL0243	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, 52

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0244	T6510 ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, T6511
AL0041	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079
AL0246	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079, 0
AL0247	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079, T6
AL0248	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079, T6510
AL0249	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079, T6511
AL0042	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178
AL0250	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178, 0
AL0251	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178, T6
AL0252	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178, T6510
AL0253	ALUMINUM ALLOY, QQ-A-200/13, ALLOY 7178, T6511
AL0254	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, 0
AL0260	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, F
AL0255	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H12
AL0256	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H14
AL0257	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H16
AL0258	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H18
AL0259	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, H112
AL0261	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, 0
AL0267	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, F
AL0262	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H12
AL0263	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H14
AL0264	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H16
AL0265	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H18
AL0266	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003, H112
AL0268	ALUMINUM ALLOY, QQ-A-225/3, ALLOY 2011

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0269	ALUMINUM ALLOY, QQ-A-225/3, ALLOY 2011, T3
AL0270	ALUMINUM ALLOY, QQ-A-225/3, ALLOY 2011, T8
AL0045	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014
AL0271	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014, 0
AL0272	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014, T4
AL0273	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014, T6
AL0274	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014, T651
AL0046	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017
AL0275	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017, 0
AL0276	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017, T4
AL0277	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017, T451
AL0047	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024
AL0278	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, 0
AL0280	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T4
AL0281	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T6
AL0279	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T351
AL0282	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T851
AL0283	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, 0
AL0288	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, F
AL0284	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, H32
AL0285	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, H34
AL0286	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, H36
AL0287	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, H38
AL0049	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061
AL0289	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, 0
AL0290	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T4
AL0293	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T6
AL0291	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T42
AL0292	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, 54

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0294	T451 ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T651
AL0050	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075
AL0295	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, 0
AL0296	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T6
AL0298	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T73
AL0297	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T651
AL0299	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, 0
AL0309	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, F
AL0300	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H12
AL0301	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H14
AL0302	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H16
AL0303	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H18
AL0304	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H22
AL0305	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H24
AL0306	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H26
AL0307	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H28
AL0308	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100, H112
AL0310	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, 0
AL0319	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, F
AL0311	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H12
AL0312	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H14
AL0313	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H16
AL0314	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H18
AL0315	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H22
AL0316	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H24
AL0317	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, 55

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0318	H26 ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H28
AL0320	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003, H112
AL0322	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, 0
AL0330	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, F
AL0323	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T3
AL0324	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T4
AL0326	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T6
AL0325	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T42
AL0327	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T62
AL0328	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T451
AL0329	ALUMINUM ALLOY, QQ-A-250/3, ALLOY 2014, T651
AL0331	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, 0
AL0342	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, F
AL0332	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T3
AL0334	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T4
AL0333	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T36
AL0335	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T42
AL0336	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T62
AL0337	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T72
AL0338	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T81
AL0339	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T86
AL0340	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T351
AL0341	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T851
AL0344	ALUMINUM ALLOY, QQ-A-250/5, ALLOY ALCLAD 2024, 0
AL0354	ALUMINUM ALLOY, QQ-A-250/5, ALLOY

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0345	ALCLAD 2024, F ALUMINUM ALLOY, QQ-A-250/5, ALLOY
AL0347	ALCLAD 2024, T3 ALUMINUM ALLOY, QQ-A-250/5, ALLOY
AL0346	ALCLAD 2024, T4 ALUMINUM ALLOY, QQ-A-250/5, ALLOY
AL0348	ALCLAD 2024, T36 ALUMINUM ALLOY, QQ-A-250/5, ALLOY
AL0349	ALCLAD 2024, T42 ALUMINUM ALLOY, QQ-A-250/5, ALLOY
AL0350	ALCLAD 2024, T62 ALUMINUM ALLOY, QQ-A-250/5, ALLOY
AL0351	ALCLAD 2024, T81 ALUMINUM ALLOY, QQ-A-250/5, ALLOY
AL0352	ALCLAD 2024, T86 ALUMINUM ALLOY, QQ-A-250/5, ALLOY
AL0353	ALCLAD 2024, T351 ALUMINUM ALLOY, QQ-A-250/5, ALLOY
AL0054	ALCLAD 2024, T851 ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083
AL0355	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, 0
AL0356	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, H321
AL0357	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, H323
AL0358	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, H343
AL0359	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, H112
AL0055	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086
AL0360	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, 0
AL0361	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, H32
AL0362	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, H34
AL0363	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, H36
AL0364	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, H112
AL0365	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, 0
AL0375	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, F
AL0366	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H22
AL0367	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H24
AL0368	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H26

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0369	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H28
AL0370	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H32
AL0371	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H34
AL0372	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H36
AL0373	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H38
AL0374	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H112
AL0057	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456
AL0376	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, 0
AL0377	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, H112
AL0378	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, H321
AL0379	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, H323
AL0380	ALUMINUM ALLOY, QQ-A-250/9, ALLOY 5456, H343
AL0058	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454
AL0381	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454, 0
AL0382	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454, H32
AL0383	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454, H34
AL0384	ALUMINUM ALLOY, QQ-A-250/10, ALLOY 5454, H112
AL0385	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, 0
AL0391	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, F
AL0386	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T4
AL0387	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T6
AL0388	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T42
AL0389	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T451
AL0390	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T651
AL0392	ALUMINUM ALLOY, QQ-A-250/12, ALLOY 7075, 0
AL0395	ALUMINUM ALLOY, QQ-A-250/12, ALLOY 7075, 58

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0393	F ALUMINUM ALLOY, QQ-A-250/12, ALLOY 7075, T6
AL0394	ALUMINUM ALLOY, QQ-A-250/12, ALLOY 7075, T651
AL0397	ALUMINUM ALLOY, QQ-A-250/13, ALLOY ALCLAD 7075, 0
AL0400	ALUMINUM ALLOY, QQ-A-250/13, ALLOY ALCLAD 7075, F
AL0398	ALUMINUM ALLOY, QQ-A-250/13, ALLOY ALCLAD 7075, T6
AL0399	ALUMINUM ALLOY, QQ-A-250/13, ALLOY ALCLAD 7075, T651
AL0401	ALUMINUM ALLOY, QQ-A-250/14, ALLOY 7178, 0
AL0404	ALUMINUM ALLOY, QQ-A-250/14, ALLOY 7178, F
AL0402	ALUMINUM ALLOY, QQ-A-250/14, ALLOY 7178, T6
AL0403	ALUMINUM ALLOY, QQ-A-250/14, ALLOY 7178, T651
AL0407	ALUMINUM ALLOY, QQ-A-250/15, ALLOY ALCLAD 7178, 0
AL0409	ALUMINUM ALLOY, QQ-A-250/15, ALLOY ALCLAD 7178, F
AL0405	ALUMINUM ALLOY, QQ-A-250/15, ALLOY ALCLAD 7178, T6
AL0408	ALUMINUM ALLOY, QQ-A-250/15, ALLOY ALCLAD 7178, T651
AL0410	ALUMINUM ALLOY, QQ-A-250/17, ALLOY 7079, 0
AL0413	ALUMINUM ALLOY, QQ-A-250/17, ALLOY 7079, F
AL0411	ALUMINUM ALLOY, QQ-A-250/17, ALLOY 7079, T6
AL0412	ALUMINUM ALLOY, QQ-A-250/17, ALLOY 7079, T651
AL0415	ALUMINUM ALLOY, QQ-A-250/18, ALLOY ALCLAD ONE SIDE 7075, O
AL0418	ALUMINUM ALLOY, QQ-A-250/18, ALLOY ALCLAD ONE SIDE 7075, F
AL0416	ALUMINUM ALLOY, QQ-A-250/18, ALLOY ALCLAD ONE SIDE 7075, T6
AL0417	ALUMINUM ALLOY, QQ-A-250/18, ALLOY ALCLAD ONE SIDE 7075, T651 Aluminum Alloy, QQ-A-268, Alloy 2024-Canceled (use Reply Code AL0047) Aluminum Alloy, QQ-A-365, Alloy 2011, T3-

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0419	Canceled (use Reply Code AL0269)
AL0420	ALUMINUM ALLOY, QQ-A-367, COMP 2014, T4
AL0421	ALUMINUM ALLOY, QQ-A-367, COMP 2014, T6
AL0422	ALUMINUM ALLOY, QQ-A-367, COMP 2014, T652
AL0423	ALUMINUM ALLOY, QQ-A-367, COMP 2018, T61
AL0424	ALUMINUM ALLOY, QQ-A-367, COMP 2218, T61
AL0425	ALUMINUM ALLOY, QQ-A-367, COMP 2219, T6
AL0426	ALUMINUM ALLOY, QQ-A-367, COMP 2219, T852
AL0427	ALUMINUM ALLOY, QQ-A-367, COMP 2618, T61
AL0428	ALUMINUM ALLOY, QQ-A-367, COMP 4032, T6
AL0429	ALUMINUM ALLOY, QQ-A-367, COMP 5083, H111
AL0430	ALUMINUM ALLOY, QQ-A-367, COMP 5083, H112
AL0431	ALUMINUM ALLOY, QQ-A-367, COMP 6061, T6
AL0432	ALUMINUM ALLOY, QQ-A-367, COMP 6061, T652
AL0433	ALUMINUM ALLOY, QQ-A-367, COMP 6066, T6
AL0434	ALUMINUM ALLOY, QQ-A-367, COMP 6151, T6
AL0435	ALUMINUM ALLOY, QQ-A-367, COMP 7075, T6
AL0436	ALUMINUM ALLOY, QQ-A-367, COMP 7075, T73
AL0437	ALUMINUM ALLOY, QQ-A-367, COMP 7075, T652
AL0438	ALUMINUM ALLOY, QQ-A-367, COMP 7076, T61
AL0439	ALUMINUM ALLOY, QQ-A-367, COMP 7079, T6
AL0440	ALUMINUM ALLOY, QQ-A-367, COMP 7079, T652
AL0184	ALUMINUM ALLOY, QQ-A-591
AL0460	ALUMINUM ALLOY, QQ-A-596, ALLOY 356
AL0593	ALUMINUM ALLOY, QQ-A-601
AL0160	ALUMINUM ALLOY, QQ-A-601, ALLOY 356, TEMPER T6
AL0174	ALUMINUM ALLOY, QQ-A-601, T6
AL0694	ALUMINUM ALLOY, 2024, T4
AL1541	ALUMINUM ALLOY, 2024, T351
ALA000	ALUMINUM BRONZE
AL0441	ALUMINUM BRONZE, QQ-B-671, CLASS 1, AS CAST-CANCELED
AL0442	ALUMINUM BRONZE, QQ-B-671, CLASS 2, AS CAST-CANCELED
AL0443	ALUMINUM BRONZE, QQ-B-671, CLASS 2, HEAT TREATED-CANCELED
AL0444	ALUMINUM BRONZE, QQ-B-671, CLASS 3, AS CAST-CANCELED
AL0445	ALUMINUM BRONZE, QQ-B-671, CLASS 3,

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0446	HEAT TREATED-CANCELED ALUMINUM BRONZE, QQ-B-671, CLASS 4, AS CAST-CANCELED
AL0447	ALUMINUM BRONZE, QQ-B-671, CLASS 4, HEAT TREATED-CANCELED
AL0448	ALUMINUM BRONZE, QQ-B-679, COMP 1- CANCELED
AL0175	ALUMINUM BRONZE, QQ-B-679, COMP 2- CANCELED
AL0449	ALUMINUM BRONZE, QQ-B-679, COMP 3- CANCELED
AL0450	ALUMINUM BRONZE, QQ-B-679, COMP 5- CANCELED
AL0176	ALUMINUM BRONZE, ASTM B-148-52, ALLOY 9B
AS0000	ASBESTOS
AS0027	ASBESTOS, HH-P-34, TYPE 2-CANCELED
BC0000	BERYLLIUM COPPER
BR0000	BRASS
BR0074	BRASS, ASTM B16-60, 1/2H
BR0602	BRASS, MIL-B-15894
BR0075	BRASS, QQ-B-613, ALLOY 230, 1/4H
BR0076	BRASS, QQ-B-613, ALLOY 230, 1/2H
BR0077	BRASS, QQ-B-613, ALLOY 230, HARD
BR0078	BRASS, QQ-B-613, ALLOY 240, 1/4H
BR0079	BRASS, QQ-B-613, ALLOY 240, 1/2H
BR0080	BRASS, QQ-B-613, ALLOY 240, HARD
BR0081	BRASS, QQ-B-613, ALLOY 260, ANNEALED
BR0082	BRASS, QQ-B-613, ALLOY 260, 1/4H
BR0083	BRASS, QQ-B-613, ALLOY 260, 1/2H
BR0084	BRASS, QQ-B-613, ALLOY 260, HARD
BR0085	BRASS, QQ-B-613, ALLOY 260, EXTRA-HARD
BR0086	BRASS, QQ-B-613, ALLOY 260, SPRING
BR0087	BRASS, QQ-B-613, ALLOY 260, EXTRA-SPRING
BR0088	BRASS, QQ-B-613, ALLOY 268, 1/4H
BR0089	BRASS, QQ-B-613, ALLOY 268, 1/2H
BR0090	BRASS, QQ-B-613, ALLOY 268, HARD
BR0091	BRASS, QQ-B-613, ALLOY 268, EXTRA-HARD
BR0092	BRASS, QQ-B-613, ALLOY 268, SPRING
BR0093	BRASS, QQ-B-613, ALLOY 268, EXTRA-SPRING
BR0094	BRASS, QQ-B-613, ALLOY 342, 1/4H
BR0095	BRASS, QQ-B-613, ALLOY 342, 1/2H
BR0111	BRASS, QQ-B-613, ALLOY 342, HARD
BR0096	BRASS, QQ-B-613, ALLOY 342, EXTRA-HARD
BR0097	BRASS, QQ-B-613, ALLOY 353, 1/4H
BR0098	BRASS, QQ-B-613, ALLOY 353, 1/2H
BR0099	BRASS, QQ-B-613, ALLOY 353, HARD
BR0100	BRASS, QQ-B-613, ALLOY 353, EXTRA-HARD

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
BR0101	BRASS, QQ-B-613, COMP 11, SOFT ANNEALED
BR0102	BRASS, QQ-B-613, COMP 11, LIGHT ANNEALED
BR0103	BRASS, QQ-B-613, COMP 11, 1/4H
BR0104	BRASS, QQ-B-613, COMP 11, 1/2H
BR0105	BRASS, QQ-B-613, COMP 11, HARD
BR0106	BRASS, QQ-B-613, COMP 11, EXTRA-HARD
BR0107	BRASS, QQ-B-613, COMP 11, SPRING
BR0013	BRASS, QQ-B-621, CLASS A-CANCELED
BR0014	BRASS, QQ-B-621, CLASS B-CANCELED
BR0015	BRASS, QQ-B-621, CLASS C-CANCELED
BR0108	BRASS, QQ-B-626, ALLOY 230, SOFT
BR0109	BRASS, QQ-B-626, ALLOY 230, 1/2H
BR0110	BRASS, QQ-B-626, ALLOY 240, SOFT
BR0112	BRASS, QQ-B-626, ALLOY 240, 1/2H
BR0113	BRASS, QQ-B-626, ALLOY 260, SOFT
BR0114	BRASS, QQ-B-626, ALLOY 260, 1/2H
BR0115	BRASS, QQ-B-626, ALLOY 260, HARD
BR0116	BRASS, QQ-B-626, ALLOY 268, SOFT
BR0117	BRASS, QQ-B-626, ALLOY 268, 1/2H
BR0118	BRASS, QQ-B-626, ALLOY 268, HARD
BR0119	BRASS, QQ-B-626, ALLOY 342, SOFT
BR0120	BRASS, QQ-B-626, ALLOY 342, 1/2H
BR0121	BRASS, QQ-B-626, ALLOY 353, SOFT
BR0122	BRASS, QQ-B-626, ALLOY 353, 1/2H
BR0123	BRASS, QQ-B-626, ALLOY 360, SOFT
BR0155	BRASS, QQ-B-626, ALLOY 360, 1/2H
BR0124	BRASS, QQ-B-626, ALLOY 360, HARD
BR0189	BRASS, QQ-B-626, ALLOY 377
BR0125	BRASS, QQ-B-626, ALLOY 377, SOFT
BR0126	BRASS, QQ-B-626, ALLOY 377, 1/2H
BR0127	BRASS, QQ-B-626, COMP 11, SOFT
BR0040	BRASS, QQ-B-626, COMP 11, 1/2H
BR0129	Brass, QQ-B-626, Comp 21 (use Reply Code BR0189)
BR0130	BRASS, QQ-B-637, ALLOY 462, SOFT
BR0131	BRASS, QQ-B-637, ALLOY 462, 1/2H
BR0132	BRASS, QQ-B-637, ALLOY 462, HARD
BR0133	BRASS, QQ-B-637, ALLOY 464, SOFT
BR0134	BRASS, QQ-B-637, ALLOY 464, 1/2H
BR0135	BRASS, QQ-B-637, ALLOY 464, HARD
BR0136	BRASS, QQ-B-637, ALLOY 482, SOFT
BR0137	BRASS, QQ-B-637, ALLOY 482, 1/2H
BR0138	BRASS, QQ-B-637, ALLOY 482, HARD
BR0139	BRASS, QQ-B-637, ALLOY 485, SOFT
BR0140	BRASS, QQ-B-637, ALLOY 485, 1/2H
BR0141	BRASS, QQ-B-639, ALLOY 462, SOFT
BR0142	BRASS, QQ-B-639, ALLOY 462, 1/2H
BR0143	BRASS, QQ-B-639, ALLOY 462, HARD

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
BR0144	BRASS, QQ-B-639, ALLOY 464, SOFT
BR0145	BRASS, QQ-B-639, ALLOY 464, 1/2H
BR0146	BRASS, QQ-B-639, ALLOY 464, HARD
BR0147	BRASS, QQ-B-639, ALLOY 482, SOFT
BR0148	BRASS, QQ-B-639, ALLOY 482, 1/2H
BR0149	BRASS, QQ-B-639, ALLOY 482, HARD
BR0150	BRASS, QQ-B-639, ALLOY 485, SOFT
BR0151	BRASS, QQ-B-639, ALLOY 485, 1/2H
BR0152	BRASS, QQ-B-639, ALLOY 485, HARD
BR0033	BRASS, SAE CA360
BR0153	BRASS, SAE 40
BR0154	BRASS, SAE 64
BRA000	BRASS OR BRONZE
BN0000	BRONZE
BN0014	BRONZE, ASTM B61
BN0015	BRONZE, ASTM B62
BN0016	BRONZE, ASTM B63
BN0013	BRONZE, ASTM B149
BN0023	Bronze, Cast (use Reply Code BN0000)
BN0024	BRONZE, MIL-B-16261, GRADE 1-CANCELED
BN0025	BRONZE, MIL-B-16261, GRADE 2-CANCELED
BN0026	BRONZE, MIL-B-16261, GRADE 3-CANCELED
BN0027	BRONZE, MIL-B-16261, GRADE 4-CANCELED
BN0028	BRONZE, MIL-B-16261, GRADE 5-CANCELED
BN0086	BRONZE, MIL-B-16444
BN0239	BRONZE, MIL-B-16541
	Bronze, MIL-B-16541, Grade A (use Reply Code BN0239)
BN0029	BRONZE, QQ-B-1005, COMP 1-CANCELED
BN0030	BRONZE, QQ-B-1005, COMP 2-CANCELED
BN0031	BRONZE, QQ-B-1005, COMP 3-CANCELED
BN0032	BRONZE, QQ-B-1005, COMP 4-CANCELED
BN0033	BRONZE, QQ-B-1005, COMP 5-CANCELED
BN0034	BRONZE, QQ-B-1005, COMP 6-CANCELED
BN0035	BRONZE, QQ-B-1005, COMP 7-CANCELED
BN0036	BRONZE, QQ-B-1005, COMP 8-CANCELED
BN0037	BRONZE, QQ-B-1005, COMP 9-CANCELED
BN0038	BRONZE, QQ-B-1005, COMP 10-CANCELED
BN0039	BRONZE, QQ-B-1005, COMP 11-CANCELED
BN0040	BRONZE, QQ-B-1005, COMP 12-CANCELED
BN0041	BRONZE, QQ-B-1005, COMP 13-CANCELED
BN0042	BRONZE, QQ-B-1005, COMP 14-CANCELED
BN0043	BRONZE, QQ-B-1005, COMP 15-CANCELED
BN0044	BRONZE, QQ-B-1005, COMP 16-CANCELED
BN0045	BRONZE, QQ-B-1005, COMP 17-CANCELED
BN0046	BRONZE, QQ-B-1005, COMP 18-CANCELED
BN0047	BRONZE, QQ-B-1005, COMP 19-CANCELED

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REPLY CODE

REPLY (AD09)

CS0000	Bronze, Valve Castings, MIL-B-16541 (use Reply Code BN0239)
CR0000	Bronze Manganese, MIL-B-16541 (use Reply Code BN0239)
DFAAK0	Carbon Molybdenum Alloy, MIL-S-872 (use Reply Code ST2355)
CMA000	CELLULOSE FIBER
CMB000	CHROMIUM
CU0000	CLOTH, NYLON
CU0013	COBALT ALLOY (includes Stellite, Colmonoy)
CK0000	COBALT-CHROMIUM-TUNGSTEN ALLOY
CK0001	COPPER
CK0002	COPPER, QQ-C-521, GRADE A
CK0003	COPPER ALLOY
CK0004	COPPER ALLOY, QQ-C-523, ALLOY A
CK0005	COPPER ALLOY, QQ-C-523, ALLOY B
CK0006	COPPER ALLOY, QQ-C-523, ALLOY C
CK0007	COPPER ALLOY, QQ-C-523, ALLOY D
CK0008	COPPER ALLOY, QQ-C-523, ALLOY E
CK0009	COPPER ALLOY, QQ-C-523, ALLOY F
CK0010	COPPER ALLOY, QQ-C-525, COMP 1
CK0011	COPPER ALLOY, QQ-C-525, COMP 3
CK0012	COPPER ALLOY, QQ-C-525, COMP 5
CK0013	COPPER ALLOY, QQ-C-525, COMP 8
CK0014	COPPER ALLOY, QQ-C-525, COMP 9
CK0015	COPPER ALLOY, QQ-C-525, COMP 10
	COPPER ALLOY, QQ-C-525, COMP 11
	COPPER ALLOY, QQ-C-525, COMP 12
	COPPER ALLOY, QQ-C-525, COMP 13
FE0000	Copper and Nickel (use Reply Codes CU0000 and NF0000)
FEA000	IRON
FE0038	IRON, CAST
FE0013	IRON, CAST, ASTM A126, CLASS C
FE0014	IRON, CAST, ASTM A126-61T, CLASS A
FE0012	IRON, CAST, ASTM A126-61T, CLASS B
FE0001	IRON, CAST, QQ-I-652
FE0002	IRON, CAST, QQ-I-652, CLASS 20
FE0003	IRON, CAST, QQ-I-652, CLASS 25
FE0004	IRON, CAST, QQ-I-652, CLASS 30
FE0005	IRON, CAST, QQ-I-652, CLASS 35
FE0006	IRON, CAST, QQ-I-652, CLASS 40
FE0007	IRON, CAST, QQ-I-652, CLASS 45
FE0008	IRON, CAST, QQ-I-652, CLASS 50
FEF000	IRON, CAST, QQ-I-652, CLASS 60
FEC000	IRON, DUCTILE
FE0011	IRON, MALLEABLE
	IRON, MALLEABLE, ASTM A197

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
FE0040	IRON, MALLEABLE, QQ-I-666, GRADE 1
FE0041	IRON, MALLEABLE, QQ-I-666, GRADE 1G
FE0042	IRON, MALLEABLE, QQ-I-666, GRADE 2
FE0039	IRON, MALLEABLE, SAE 32510
FEB000	IRON, WROUGHT
PB0000	LEAD
PB0001	LEAD, QQ-L-201, GRADE B
PB0002	LEAD, QQ-L-201, GRADE C
LR0000	LEATHER
LN0000	LINEN
MG0000	MAGNESIUM
MG0009	MAGNESIUM, QQ-M-40, AZ31B
MG0010	MAGNESIUM, QQ-M-40, AZ31C
MG0005	MAGNESIUM, QQ-M-40, AZ61A
MG0007	MAGNESIUM, QQ-M-40, MIA
MG0008	MAGNESIUM, QQ-M-40, ZK60A
MNA000	MANGANESE BRONZE
NF0000	NICKEL
NF0045	NICKEL, AMS 5667
NFJ000	NICKEL-CHROMIUM-IRON ALLOY
NC0000	NICKEL COPPER ALLOY
NC0018	NICKEL COPPER ALLOY, MIL-N-894-CANCELED
NC0007	NICKEL COPPER ALLOY, AMS 4674B
NC0056	NICKEL COPPER ALLOY, AMST B164
NC0005	NICKEL COPPER ALLOY (Monel), QQ-N-286, CLASS A
NC0006	NICKEL COPPER ALLOY (Monel), QQ-N-286, CLASS B
NC0017	NICKEL COPPER ALLOY, QQ-N-281
NC0003	NICKEL COPPER ALLOY, QQ-N-281, CLASS A
NC0004	NICKEL COPPER ALLOY, QQ-N-281, CLASS B
NC0024	NICKEL COPPER ALLOY, QQ-N-288
NC0008	NICKEL COPPER ALLOY, QQ-N-288, COMP A
NC0009	NICKEL COPPER ALLOY, QQ-N-288, COMP B
NC0010	NICKEL COPPER ALLOY, QQ-N-288, COMP C
NC0011	NICKEL COPPER ALLOY, QQ-N-288, COMP D
NC0012	NICKEL COPPER ALLOY, QQ-N-288, COMP E
NM0000	NONMETALLIC
PZ0000	Nonmetallic Composition (use Reply Code NM0000)
PZ0014	PHOSPHOR BRONZE
PZ0015	PHOSPHOR BRONZE, MIL-B-16540, GRADE A
PZ0017	PHOSPHOR BRONZE, MIL-B-16540, GRADE B
PZ0018	PHOSPHOR BRONZE, QQ-B-750, COMP A, SOFT
PZ0019	PHOSPHOR BRONZE, QQ-B-750, COMP A, HARD
PZ0020	PHOSPHOR BRONZE, QQ-B-750, COMP A, SPRING
	PHOSPHOR BRONZE, QQ-B-750, COMP B, HARD

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
PZ0021	PHOSPHOR BRONZE, QQ-B-750, COMP D, SOFT
PZ0022	PHOSPHOR BRONZE, QQ-B-750, COMP D, HARD
PZ0016	PHOSPHOR BRONZE, SAE 64
PC0000	PLASTIC
PCB000	PLASTIC, ACETAL
PC0114	PLASTIC, AMS 3650
PC0115	PLASTIC, AMS 3651
PC0753	PLASTIC, KEL-F-81, MINNESOTA MINING AND MFG CO.
PC0519	PLASTIC, MIL-P-22296, TYPE 2, CLASS G
PCAAAC	PLASTIC, NYLON RESIN
PCAE00	PLASTIC, POLYAMIDE
PCCA00	PLASTIC, POLYCHLOROTRIFLUOROETHYLENE
PC0348	PLASTIC, POLYCHLOROTRIFLUOROETHYLENE, MIL-M-55028 KEL-F-CANCELED
PCAB00	PLASTIC, POLYESTER
PCCR00	PLASTIC, POLYETHYLENE
PC0312	PLASTIC, POLYETHYLENE TEREPHTHALATE, MIL-P-43018, TYPE 1
PC0652	PLASTIC, POLYMIDE, MIL-M-20693
PCAF00	PLASTIC, POLYPROPYLENE
PCAHO0	PLASTIC, POLYTETRAFLUOROETHYLENE
PCAJ00	PLASTIC, POLYURETHANE
PCAM00	PLASTIC, POLYVINYL ACETATE
PCAN00	PLASTIC, POLYVINYL ALCOHOL
PCAK00	PLASTIC, POLYVINYL CHLORIDE
PCAL00	PLASTIC, POLYVINYLDENE CHLORIDE
PCAAAL	PLASTIC, TETRAFLUOROETHYLENE (Teflon)
PCAAAX	PLASTIC, VINYL
PL0000	POLYAMIDE NYLON
PL0067	POLYAMIDE NYLON, MS111, AIR REDUCTION CO INC
RD0001	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RCOCR-A
RD0002	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RCOCR-C
RD0003	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RNICR-B
RD0004	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RNICR-C
RD0005	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RFEMO-C
RD0006	ROD, WELDING, SURFACING, MIL-R-17131, TYPE MIL-RFECRKO
RC0000	RUBBER
RCL000	RUBBER, BUNA-N

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
RCM000	RUBBER, BUNA-S
RCH000	RUBBER, CHLOROPRENE (NEOPRENE)
RCR000	RUBBER, COMPOSITION
RC3737	RUBBER, COMPOUND 7806-70, HERCULES PACKING DIV, CHEMPRENE INC LINEAR SEAL DIV
RCQ000	RUBBER, HYDROCHLORIDE
RC0191	RUBBER, MIL-G-1149, TYPE 2, CLASS 5 Rubber, MIL-R-1149, Type 2, Class 5-Canceled (use Reply Code RC0191)
RC0013	RUBBER, MIL-R-2765
RC0085	RUBBER, MIL-R-5001, TYPE 2, CLASS SOFT, GRADE A
RC0063	RUBBER, MIL-R-25988
RC1129	RUBBER, MIL-STD-417, GRADE SB910ABEFL
RC1130	RUBBER, MS106, AIR REDUCTION CO INC
RC1131	RUBBER, MS118, AIR REDUCTION CO INC
RC1132	RUBBER, MS 29513
RCBR00	RUBBER, POLYURETHANE
RCC000	RUBBER, SYNTHETIC
RC0341	RUBBER, SYNTHETIC, MIL-D-17650
RC0970	RUBBER, SYNTHETIC, MIL-P-5516
RC0241	RUBBER, SYNTHETIC, MIL-P-5516, CLASS A
RC0242	RUBBER, SYNTHETIC, MIL-P-5516, CLASS B
RC0295	RUBBER, SYNTHETIC, MIL-P-25732
RC0245	RUBBER, SYNTHETIC, MIL-R-7362, TYPE 1, COND A
RC0352	RUBBER, SYNTHETIC LS53, DOW CORNING CORP

NOTE: FOR ALL AISI OR SAE STEELS, USE  
THE REPLY CODES ASSIGNED TO THE  
SAME COMPOSITION OR  
IDENTIFICATION NUMBER UNDER  
FEDERAL STANDARD 66.

ST0000	STEEL
ST1052	STEEL, CARBON Steel, Cast (use Reply Code ST0000)
STB000	Steel, Corrosion Resisting (use Reply Code STB000) STEEL, CORROSION RESISTING Steel, Corrosion Resisting, AISI 303 or SAE 30303 (use Reply Code ST1615) Steel, Corrosion Resisting, FED STD 66, Comp 316 (use Reply Code ST1621)
SC0168	STEEL, CORROSION RESISTING, QQ-S-763, CLASS 302, 303, 304, 305, 310, OR 316 Steel, Corrosion Resisting, QQ-S-763, Class 416 (use 67

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST8988	Reply Code ST1773)
ST1728	STEEL, AMS 5362
ST1729	STEEL, AMS 5610
ST2016	STEEL, AMS 5630
ST1915	STEEL, AMS 5640
ST1916	STEEL, AMS 5642, TYPE 1
ST1917	STEEL, AMS 5642, TYPE 2
	STEEL, AMS 5643
	Steel, AMS 5643, 17-4PH (use Reply Code ST1917)
ST1606	STEEL, AMS 5735
ST1607	STEEL, AMS 5736
ST1608	STEEL, AMS 5737
ST1910	STEEL, AMS 6260
ST1911	STEEL, AMS 6320
ST1800	STEEL, AMS 6322
ST1912	STEEL, AMS 6324
ST2037	STEEL, AMS 6330
ST1913	STEEL, AMS 6342
ST0922	STEEL, AMS 6350
ST0923	STEEL, AMS 6357
ST2038	STEEL, AMS 6418
ST2137	STEEL, ASTM A105, GRADE 1
ST2138	STEEL, ASTM A105, GRADE 2
ST2139	STEEL, ASTM A181, GRADE 1
ST2140	STEEL, ASTM A181, GRADE 2
ST2039	STEEL, ASTM A182, GRADE F1
ST2235	STEEL, ASTM A182, GRADE F5
ST2236	STEEL, ASTM A182, GRADE F5A
ST2237	STEEL, ASTM A182, GRADE F6
ST2238	STEEL, ASTM A182, GRADE F7
ST2239	STEEL, ASTM A182, GRADE F9
ST2241	STEEL, ASTM A182, GRADE F10
ST2040	STEEL, ASTM A182, GRADE F11
ST2041	STEEL, ASTM A182, GRADE F12
ST2042	STEEL, ASTM A182, GRADE F21
ST0984	STEEL, ASTM A182, GRADE F22
ST2240	STEEL, ASTM A182, GRADE F304
ST2242	STEEL, ASTM A182, GRADE F304H
ST2243	STEEL, ASTM A182, GRADE F304L
ST2244	STEEL, ASTM A182, GRADE F310
ST2245	STEEL, ASTM A182, GRADE F316
ST2246	STEEL, ASTM A182, GRADE F316H
ST2247	STEEL, ASTM A182, GRADE F316L
ST2248	STEEL, ASTM A182, GRADE F321
ST2249	STEEL, ASTM A182, GRADE F321H
ST2250	STEEL, ASTM A182, GRADE F347
ST2251	STEEL, ASTM A182, GRADE F347H
ST2252	STEEL, ASTM A182, GRADE F348

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST2253	STEEL, ASTM A182, GRADE F348H
ST2043	STEEL, ASTM A216, GRADE WCA
ST2044	STEEL, ASTM A216, GRADE WCB
ST2254	STEEL, ASTM A217, GRADE C5
ST2255	STEEL, ASTM A217, GRADE C12
ST2045	STEEL, ASTM A217, GRADE WC1
ST2046	STEEL, ASTM A217, GRADE WC4
ST2047	STEEL, ASTM A217, GRADE WC5
ST2048	STEEL, ASTM A217, GRADE WC6
ST2049	STEEL, ASTM A217, GRADE WC9
ST2050	STEEL, ASTM A335, GRADE P1
ST2051	STEEL, ASTM A335, GRADE P2
ST2256	STEEL, ASTM A335, GRADE P5
ST2257	STEEL, ASTM A335, GRADE P5B
ST2258	STEEL, ASTM A335, GRADE P5C
ST2259	STEEL, ASTM A335, GRADE P7
ST2260	STEEL, ASTM A335, GRADE P9
ST2052	STEEL, ASTM A335, GRADE P11
ST2053	STEEL, ASTM A335, GRADE P12
ST2054	STEEL, ASTM A335, GRADE P15
ST2055	STEEL, ASTM A335, GRADE P21
ST2056	STEEL, ASTM A335, GRADE P22
ST2141	STEEL, ASTM A350, GRADE LF1
ST2142	STEEL, ASTM A350, GRADE LF2
ST2057	STEEL, ASTM A350, GRADE LF3
ST2058	STEEL, ASTM A350, GRADE LF4
ST2261	STEEL, ASTM A351, GRADE CA15
ST2262	STEEL, ASTM A351, GRADE CF3
ST2264	STEEL, ASTM A351, GRADE CF3M
ST2263	STEEL, ASTM A351, GRADE CF8
ST2266	STEEL, ASTM A351, GRADE CF8C
ST2265	STEEL, ASTM A351, GRADE CF8M
ST2272	STEEL, ASTM A351, GRADE CF10MC
ST2267	STEEL, ASTM A351, GRADE CH8
ST2269	STEEL, ASTM A351, GRADE CH10
ST2268	STEEL, ASTM A351, GRADE CH20
ST2270	STEEL, ASTM A351, GRADE CK45
ST2271	STEEL, ASTM A351, GRADE CT35
ST2143	STEEL, ASTM A352, GRADE LCB
ST2059	STEEL, ASTM A352, GRADE LC1
ST2060	STEEL, ASTM A352, GRADE LC2
ST2061	STEEL, ASTM A352, GRADE LC3
ST2273	STEEL, FED STD 66, AISI 201/SAE 30201
ST2274	STEEL, FED STD 66, AISI 202/SAE 30202
ST1613	STEEL, FED STD 66, AISI 301/SAE 30301
ST1614	STEEL, FED STD 66, AISI 302/SAE 30302
ST2275	STEEL, FED STD 66, AISI 302B/SAE 30302B
ST1615	STEEL, FED STD 66, AISI 303/SAE 30303

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1616	STEEL, FED STD 66, AISI 303SE/SAE 30303SE
ST1617	STEEL, FED STD 66, AISI 304/SAE 30304
ST1927	STEEL, FED STD 66, AISI 304L/SAE 30304L
ST1618	STEEL, FED STD 66, AISI 305/SAE 30305
ST1994	STEEL, FED STD 66, AISI 308/SAE 30308
ST1619	STEEL, FED STD 66, AISI 309/SAE 30309
ST1995	STEEL, FED STD 66, AISI 309S/SAE 30309S
ST1620	STEEL, FED STD 66, AISI 310/SAE 30310
ST1996	STEEL, FED STD 66, AISI 310S/SAE 30310S
ST1997	STEEL, FED STD 66, AISI 314/SAE 30314
ST1621	STEEL, FED STD 66, AISI 316/SAE 30316
ST1998	STEEL, FED STD 66, AISI 316L/SAE 30316L
ST1622	STEEL, FED STD 66, AISI 317/SAE 30317
ST1623	STEEL, FED STD 66, AISI 321/SAE 30321
ST1624	STEEL, FED STD 66, AISI 347/SAE 30347
ST1625	STEEL, FED STD 66, AISI 348/SAE 30348
ST2276	STEEL, FED STD 66, AISI 384/SAE 30384
ST2277	STEEL, FED STD 66, AISI 385/SAE 30385
ST1626	STEEL, FED STD 66, AISI 403/SAE 51403
ST1627	STEEL, FED STD 66, AISI 405/SAE 51405
ST1628	STEEL, FED STD 66, AISI 410/SAE 51410
ST1629	STEEL, FED STD 66, AISI 414/SAE 51414
ST1630	STEEL, FED STD 66, AISI 416/SAE 51416
ST1631	STEEL, FED STD 66, AISI 416SE/SAE 51416SE
ST1632	STEEL, FED STD 66, AISI 420/SAE 51420
ST1633	STEEL, FED STD 66, AISI 430/SAE 51430
ST2278	STEEL, FED STD 66, AISI 430F/SAE 51430F
ST2279	STEEL, FED STD 66, AISI 430FSE/SAE 51430FSE
ST1634	STEEL, FED STD 66, AISI 431/SAE 51431
ST1635	STEEL, FED STD 66, AISI 440A/SAE 51440A
ST1724	STEEL, FED STD 66, AISI 440B/SAE 51440B
ST1636	STEEL, FED STD 66, AISI 440C/SAE 51440C
ST2000	STEEL, FED STD 66, AISI 442/SAE 51442
ST1637	STEEL, FED STD 66, AISI 446/SAE 51446
ST2280	STEEL, FED STD 66, AISI 501/SAE 51501
ST2281	STEEL, FED STD 66, AISI 502/SAE 51502
ST1287	STEEL, FED STD 66, AISI 1005
ST2001	STEEL, FED STD 66, AISI 1011
ST2002	STEEL, FED STD 66, AISI 1013
ST2149	STEEL, FED STD 66, AISI 1031
ST2150	STEEL, FED STD 66, AISI 1033
ST2151	STEEL, FED STD 66, AISI 1034
ST2168	STEEL, FED STD 66, AISI 1059
ST2170	STEEL, FED STD 66, AISI 1061
ST2171	STEEL, FED STD 66, AISI 1064
ST2172	STEEL, FED STD 66, AISI 1065
ST2173	STEEL, FED STD 66, AISI 1066
ST2174	STEEL, FED STD 66, AISI 1069

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST2175	STEEL, FED STD 66, AISI 1071
ST2176	STEEL, FED STD 66, AISI 1072
ST2177	STEEL, FED STD 66, AISI 1074
ST2178	STEEL, FED STD 66, AISI 1075
ST2182	STEEL, FED STD 66, AISI 1085
ST2183	STEEL, FED STD 66, AISI 1086
ST2185	STEEL, FED STD 66, AISI 1108
ST2195	STEEL, FED STD 66, AISI 1215
ST2144	STEEL, FED STD 66, AISI B1006
ST2024	STEEL, FED STD 66, AISI B1111
ST1933	STEEL, FED STD 66, AISI B1112, 1212/SAE 1112
ST1304	STEEL, FED STD 66, AISI B1113, 1213/SAE 1113
ST0616	STEEL, FED STD 66, AISI MT1010
ST0617	STEEL, FED STD 66, AISI MT1015
ST0618	STEEL, FED STD 66, AISI MT1020
ST0614	STEEL, FED STD 66, AISI MTX1015
ST0615	STEEL, FED STD 66, AISI MTX1020
ST2193	STEEL, FED STD 66, AISI 12L13
ST2194	STEEL, FED STD 66, AISI 12L14
ST1932	STEEL, FED STD 66, AISI 1211/SAE 1111
ST2145	STEEL, FED STD 66, AISI/B1010
ST1359	STEEL, FED STD 66, AISI/SAE E4340
ST1360	STEEL, FED STD 66, AISI/SAE E4340H
ST1422	STEEL, FED STD 66, AISI/SAE E51100
ST1423	STEEL, FED STD 66, AISI/SAE E52100
ST2079	STEEL, FED STD 66, AISI/SAE 50B44
ST2080	STEEL, FED STD 66, AISI/SAE 50B44H
ST2081	STEEL, FED STD 66, AISI/SAE 50B46
ST2082	STEEL, FED STD 66, AISI/SAE 50B46H
ST2083	STEEL, FED STD 66, AISI/SAE 50B50
ST2084	STEEL, FED STD 66, AISI/SAE 50B50H
ST2085	STEEL, FED STD 66, AISI/SAE 50B60
ST2086	STEEL, FED STD 66, AISI/SAE 50B60H
ST1424	STEEL, FED STD 66, AISI/SAE 51B60
ST1425	STEEL, FED STD 66, AISI/SAE 51B60H
ST2093	STEEL, FED STD 66, AISI/SAE 81B45
ST2094	STEEL, FED STD 66, AISI/SAE 81B45H
ST2104	STEEL, FED STD 66, AISI/SAE 94B17
ST2105	STEEL, FED STD 66, AISI/SAE 94B17H
ST2106	STEEL, FED STD 66, AISI/SAE 94B30
ST2107	STEEL, FED STD 66, AISI/SAE 94B30H
ST1288	STEEL, FED STD 66, AISI/SAE 1006
ST1290	STEEL, FED STD 66, AISI/SAE 1008
ST1291	STEEL, FED STD 66, AISI/SAE 1010
ST1928	STEEL, FED STD 66, AISI/SAE 1012
ST1292	STEEL, FED STD 66, AISI/SAE 1015
ST1293	STEEL, FED STD 66, AISI/SAE 1016
ST2018	STEEL, FED STD 66, AISI/SAE 1017

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1294	STEEL, FED STD 66, AISI/SAE 1018
ST1929	STEEL, FED STD 66, AISI/SAE 1019
ST1930	STEEL, FED STD 66, AISI/SAE 1020
ST2019	STEEL, FED STD 66, AISI/SAE 1021
ST1931	STEEL, FED STD 66, AISI/SAE 1022
ST2020	STEEL, FED STD 66, AISI/SAE 1023
ST2021	STEEL, FED STD 66, AISI/SAE 1024
ST1295	STEEL, FED STD 66, AISI/SAE 1025
ST2146	STEEL, FED STD 66, AISI/SAE 1026
ST2147	STEEL, FED STD 66, AISI/SAE 1027
ST2148	STEEL, FED STD 66, AISI/SAE 1029
ST1296	STEEL, FED STD 66, AISI/SAE 1030
ST1297	STEEL, FED STD 66, AISI/SAE 1035
ST2152	STEEL, FED STD 66, AISI/SAE 1036
ST2153	STEEL, FED STD 66, AISI/SAE 1037
ST2154	STEEL, FED STD 66, AISI/SAE 1038
ST2155	STEEL, FED STD 66, AISI/SAE 1039
ST1298	STEEL, FED STD 66, AISI/SAE 1040
ST2156	STEEL, FED STD 66, AISI/SAE 1041
ST2157	STEEL, FED STD 66, AISI/SAE 1042
ST2158	STEEL, FED STD 66, AISI/SAE 1043
ST2159	STEEL, FED STD 66, AISI/SAE 1044
ST1299	STEEL, FED STD 66, AISI/SAE 1045
ST2160	STEEL, FED STD 66, AISI/SAE 1046
ST2161	STEEL, FED STD 66, AISI/SAE 1048
ST2162	STEEL, FED STD 66, AISI/SAE 1049
ST1300	STEEL, FED STD 66, AISI/SAE 1050
ST2163	STEEL, FED STD 66, AISI/SAE 1051
ST2164	STEEL, FED STD 66, AISI/SAE 1052
ST2165	STEEL, FED STD 66, AISI/SAE 1053
ST2166	STEEL, FED STD 66, AISI/SAE 1054
ST2167	STEEL, FED STD 66, AISI/SAE 1055
ST2169	STEEL, FED STD 66, AISI/SAE 1060
ST1301	STEEL, FED STD 66, AISI/SAE 1070
ST2179	STEEL, FED STD 66, AISI/SAE 1078
ST2180	STEEL, FED STD 66, AISI/SAE 1080
ST2181	STEEL, FED STD 66, AISI/SAE 1084
ST2184	STEEL, FED STD 66, AISI/SAE 1090
ST1302	STEEL, FED STD 66, AISI/SAE 1095
ST1303	STEEL, FED STD 66, AISI/SAE 1109
ST2017	STEEL, FED STD 66, AISI/SAE 1110
ST2025	STEEL, FED STD 66, AISI/SAE 1116
ST1726	STEEL, FED STD 66, AISI/SAE 1117
ST1727	STEEL, FED STD 66, AISI/SAE 1118
ST2186	STEEL, FED STD 66, AISI/SAE 1119
ST2187	STEEL, FED STD 66, AISI/SAE 1132
ST1310	STEEL, FED STD 66, AISI/SAE 1137
ST2188	STEEL, FED STD 66, AISI/SAE 1139

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST2189	STEEL, FED STD 66, AISI/SAE 1140
ST1311	STEEL, FED STD 66, AISI/SAE 1141
ST1312	STEEL, FED STD 66, AISI/SAE 1144
ST2190	STEEL, FED STD 66, AISI/SAE 1145
ST2191	STEEL, FED STD 66, AISI/SAE 1146
ST2192	STEEL, FED STD 66, AISI/SAE 1151
ST1313	STEEL, FED STD 66, AISI/SAE 1330
ST1314	STEEL, FED STD 66, AISI/SAE 1330H
ST1315	STEEL, FED STD 66, AISI/SAE 1335
ST1316	STEEL, FED STD 66, AISI/SAE 1335H
ST1317	STEEL, FED STD 66, AISI/SAE 1340
ST1318	STEEL, FED STD 66, AISI/SAE 1340H
ST1319	STEEL, FED STD 66, AISI/SAE 1345
ST2022	STEEL, FED STD 66, AISI/SAE 1345H
ST2023	STEEL, FED STD 66, AISI/SAE 4012
ST1323	STEEL, FED STD 66, AISI/SAE 4023
ST2062	STEEL, FED STD 66, AISI/SAE 4024
ST1324	STEEL, FED STD 66, AISI/SAE 4027
ST1325	STEEL, FED STD 66, AISI/SAE 4027H
ST2063	STEEL, FED STD 66, AISI/SAE 4028
ST2064	STEEL, FED STD 66, AISI/SAE 4028H
ST1326	STEEL, FED STD 66, AISI/SAE 4037
ST1327	STEEL, FED STD 66, AISI/SAE 4037H
ST1330	STEEL, FED STD 66, AISI/SAE 4047
ST1331	STEEL, FED STD 66, AISI/SAE 4047H
ST2065	STEEL, FED STD 66, AISI/SAE 4118
ST2066	STEEL, FED STD 66, AISI/SAE 4118H
ST1335	STEEL, FED STD 66, AISI/SAE 4130
ST1336	STEEL, FED STD 66, AISI/SAE 4130H
ST1339	STEEL, FED STD 66, AISI/SAE 4137
ST1340	STEEL, FED STD 66, AISI/SAE 4137H
ST1341	STEEL, FED STD 66, AISI/SAE 4140
ST1342	STEEL, FED STD 66, AISI/SAE 4140H
ST1343	STEEL, FED STD 66, AISI/SAE 4142
ST1344	STEEL, FED STD 66, AISI/SAE 4142H
ST1345	STEEL, FED STD 66, AISI/SAE 4145
ST1346	STEEL, FED STD 66, AISI/SAE 4145H
ST1347	STEEL, FED STD 66, AISI/SAE 4147
ST1348	STEEL, FED STD 66, AISI/SAE 4147H
ST1349	STEEL, FED STD 66, AISI/SAE 4150
ST1350	STEEL, FED STD 66, AISI/SAE 4150H
ST2067	STEEL, FED STD 66, AISI/SAE 4161
ST2068	STEEL, FED STD 66, AISI/SAE 4161H
ST1351	STEEL, FED STD 66, AISI/SAE 4320
ST1352	STEEL, FED STD 66, AISI/SAE 4320H
ST1356	STEEL, FED STD 66, AISI/SAE 4340
ST1357	STEEL, FED STD 66, AISI/SAE 4340H
ST2069	STEEL, FED STD 66, AISI/SAE 4419

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST2070	STEEL, FED STD 66, AISI/SAE 4419H
ST1358	STEEL, FED STD 66, AISI/SAE 4615
ST1361	STEEL, FED STD 66, AISI/SAE 4620
ST1362	STEEL, FED STD 66, AISI/SAE 4620H
ST1363	STEEL, FED STD 66, AISI/SAE 4621
ST1364	STEEL, FED STD 66, AISI/SAE 4621H
ST2071	STEEL, FED STD 66, AISI/SAE 4626
ST2072	STEEL, FED STD 66, AISI/SAE 4626H
ST2073	STEEL, FED STD 66, AISI/SAE 4718
ST2074	STEEL, FED STD 66, AISI/SAE 4718H
ST2075	STEEL, FED STD 66, AISI/SAE 4720
ST2076	STEEL, FED STD 66, AISI/SAE 4720H
ST1365	STEEL, FED STD 66, AISI/SAE 4815
ST1366	STEEL, FED STD 66, AISI/SAE 4815H
ST2077	STEEL, FED STD 66, AISI/SAE 4817
ST2078	STEEL, FED STD 66, AISI/SAE 4817H
ST1367	STEEL, FED STD 66, AISI/SAE 4820
ST1368	STEEL, FED STD 66, AISI/SAE 4820H
ST1962	STEEL, FED STD 66, AISI/SAE 5015
ST1369	STEEL, FED STD 66, AISI/SAE 5120
ST1370	STEEL, FED STD 66, AISI/SAE 5120H
ST1371	STEEL, FED STD 66, AISI/SAE 5130
ST1372	STEEL, FED STD 66, AISI/SAE 5130H
ST1373	STEEL, FED STD 66, AISI/SAE 5132
ST1374	STEEL, FED STD 66, AISI/SAE 5132H
ST1375	STEEL, FED STD 66, AISI/SAE 5135
ST1376	STEEL, FED STD 66, AISI/SAE 5135H
ST1377	STEEL, FED STD 66, AISI/SAE 5140
ST1378	STEEL, FED STD 66, AISI/SAE 5140H
ST1379	STEEL, FED STD 66, AISI/SAE 5145
ST1380	STEEL, FED STD 66, AISI/SAE 5145H
ST1381	STEEL, FED STD 66, AISI/SAE 5147
ST1382	STEEL, FED STD 66, AISI/SAE 5147H
ST2087	STEEL, FED STD 66, AISI/SAE 5150
ST2088	STEEL, FED STD 66, AISI/SAE 5150H
ST2089	STEEL, FED STD 66, AISI/SAE 5155
ST2090	STEEL, FED STD 66, AISI/SAE 5155H
ST1383	STEEL, FED STD 66, AISI/SAE 5160
ST1384	STEEL, FED STD 66, AISI/SAE 5160H
ST2091	STEEL, FED STD 66, AISI/SAE 6118
ST2092	STEEL, FED STD 66, AISI/SAE 6118H
ST1385	STEEL, FED STD 66, AISI/SAE 6150
ST1386	STEEL, FED STD 66, AISI/SAE 6150H
ST1388	STEEL, FED STD 66, AISI/SAE 8615
ST1389	STEEL, FED STD 66, AISI/SAE 8617
ST1390	STEEL, FED STD 66, AISI/SAE 8617H
ST1391	STEEL, FED STD 66, AISI/SAE 8620
ST1392	STEEL, FED STD 66, AISI/SAE 8620H

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1393	STEEL, FED STD 66, AISI/SAE 8622
ST1394	STEEL, FED STD 66, AISI/SAE 8622H
ST2095	STEEL, FED STD 66, AISI/SAE 8625
ST2096	STEEL, FED STD 66, AISI/SAE 8625H
ST2097	STEEL, FED STD 66, AISI/SAE 8627
ST2098	STEEL, FED STD 66, AISI/SAE 8627H
ST1395	STEEL, FED STD 66, AISI/SAE 8630
ST1396	STEEL, FED STD 66, AISI/SAE 8630H
ST1967	STEEL, FED STD 66, AISI/SAE 8637
ST1968	STEEL, FED STD 66, AISI/SAE 8637H
ST1397	STEEL, FED STD 66, AISI/SAE 8640
ST1398	STEEL, FED STD 66, AISI/SAE 8640H
ST1399	STEEL, FED STD 66, AISI/SAE 8642
ST1400	STEEL, FED STD 66, AISI/SAE 8642H
ST1401	STEEL, FED STD 66, AISI/SAE 8645
ST1402	STEEL, FED STD 66, AISI/SAE 8645H
ST1405	STEEL, FED STD 66, AISI/SAE 8655
ST1406	STEEL, FED STD 66, AISI/SAE 8655H
ST1409	STEEL, FED STD 66, AISI/SAE 8720
ST1410	STEEL, FED STD 66, AISI/SAE 8720H
ST1411	STEEL, FED STD 66, AISI/SAE 8740
ST1412	STEEL, FED STD 66, AISI/SAE 8740H
ST2099	STEEL, FED STD 66, AISI/SAE 8822
ST2100	STEEL, FED STD 66, AISI/SAE 8822H
ST2101	STEEL, FED STD 66, AISI/SAE 9255
ST2102	STEEL, FED STD 66, AISI/SAE 9260
ST2103	STEEL, FED STD 66, AISI/SAE 9260H
ST2196	STEEL, FED STD 66, GRADE M1008
ST2197	STEEL, FED STD 66, GRADE M1010
ST2198	STEEL, FED STD 66, GRADE M1012
ST2199	STEEL, FED STD 66, GRADE M1015
ST2200	STEEL, FED STD 66, GRADE M1017
ST2201	STEEL, FED STD 66, GRADE M1020
ST2202	STEEL, FED STD 66, GRADE M1023
ST2203	STEEL, FED STD 66, GRADE M1025
ST2204	STEEL, FED STD 66, GRADE M1031
ST2205	STEEL, FED STD 66, GRADE M1044
ST2206	STEEL, FED STD 66, GRADE MB1006
ST2207	STEEL, FED STD 66, GRADE MB1010
ST1919	STEEL, MIL-S-861, CLASS 403
ST1920	STEEL, MIL-S-861, CLASS 405
ST1921	STEEL, MIL-S-861, CLASS 410
ST2282	STEEL, MIL-S-861, CLASS 422
ST2283	STEEL, MIL-S-862, CLASS 322
ST2284	STEEL, MIL-S-862, CLASS 324
ST1731	STEEL, MIL-S-862, CLASS 440F
ST1732	STEEL, MIL-S-862, CLASS 440FSE
ST2208	STEEL, MIL-S-866, CLASS 1016

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1874	STEEL, MIL-S-866, CLASS 3115
ST1891	STEEL, MIL-S-866, CLASS 4615
ST2108	STEEL, MIL-S-866, CLASS 8615
ST2109	STEEL, MIL-S-866, CLASS TS8615
ST2030	STEEL, MIL-S-869, CLASS B
ST7957	STEEL, MIL-S-870
ST2355	STEEL, MIL-S-872
ST2110	STEEL, MIL-S-890, ALLOY NO. 1
ST2031	STEEL, MIL-S-890, ALLOY NO. 2
ST2111	STEEL, MIL-S-890, ALLOY NO. 3
ST2112	STEEL, MIL-S-890, ALLOY NO. 4
ST2026	STEEL, MIL-S-890, CLASS AC
ST2028	STEEL, MIL-S-890, CLASS B
ST2027	STEEL, MIL-S-890, CLASS BS
ST2029	STEEL, MIL-S-890, CLASS C
ST1894	STEEL, MIL-S-5000
ST1639	STEEL, MIL-S-5059, TYPE 301
ST2288	STEEL, MIL-S-5059, TYPE 302
ST2285	STEEL, MIL-S-5059, TYPE 316
ST1892	STEEL, MIL-S-7108
ST1875	STEEL, MIL-S-7393, COMP 1
ST1876	STEEL, MIL-S-7393, COMP 2
ST3761	STEEL, MIL-S-7493, COMP 4615
ST1893	STEEL, MIL-S-7493, COMP 4620
ST2423	STEEL, MIL-S-7720
ST1640	STEEL, MIL-S-7720, COMP 302
ST1641	STEEL, MIL-S-7720, COMP 303S
ST1642	STEEL, MIL-S-7720, COMP 303SE
ST1643	STEEL, MIL-S-7720, COMP 316
ST1899	STEEL, MIL-S-8503
ST1426	STEEL, MIL-S-8559
ST1708	STEEL, MIL-S-15083, CLASS CW
ST2209	STEEL, MIL-S-15083, GRADE B
ST2210	STEEL, MIL-S-15083, GRADE 65-35
ST2211	STEEL, MIL-S-15083, GRADE 70-36
ST2113	STEEL, MIL-S-15083, GRADE 80-40
ST2114	STEEL, MIL-S-15083, GRADE 80-50
ST2115	STEEL, MIL-S-15083, GRADE 90-60
ST2116	STEEL, MIL-S-15083, GRADE 105-85
ST2117	STEEL, MIL-S-15083, GRADE 120-95
ST2118	STEEL, MIL-S-15083, GRADE 150-125
ST2119	STEEL, MIL-S-15464, CLASS 1
ST1888	STEEL, MIL-S-15464, CLASS 2
ST1889	STEEL, MIL-S-15464, CLASS 3
ST1681	STEEL, MIL-S-16788, CLASS C1
ST1682	STEEL, MIL-S-16788, CLASS C2
ST1710	STEEL, MIL-S-16788, CLASS C3
ST1709	STEEL, MIL-S-16788, CLASS C4

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1711	STEEL, MIL-S-16788, CLASS C5
ST2212	STEEL, MIL-S-16788, CLASS C6
ST2213	STEEL, MIL-S-16788, CLASS C8
ST2214	STEEL, MIL-S-16788, CLASS C10
ST1683	STEEL, MIL-S-16974, GRADE 1010
ST2215	STEEL, MIL-S-16974, GRADE 1015
ST1684	STEEL, MIL-S-16974, GRADE 1022
ST2216	STEEL, MIL-S-16974, GRADE 1023W
ST1713	STEEL, MIL-S-16974, GRADE 1030
ST1714	STEEL, MIL-S-16974, GRADE 1040
ST1715	STEEL, MIL-S-16974, GRADE 1050
ST2217	STEEL, MIL-S-16974, GRADE 1060
ST2218	STEEL, MIL-S-16974, GRADE 1080
ST1864	STEEL, MIL-S-16974, GRADE 1095
ST1867	STEEL, MIL-S-16974, GRADE 1320
ST1868	STEEL, MIL-S-16974, GRADE 1330
ST2120	STEEL, MIL-S-16974, GRADE 1335
ST1869	STEEL, MIL-S-16974, GRADE 1340
ST1877	STEEL, MIL-S-16974, GRADE 3130
ST1878	STEEL, MIL-S-16974, GRADE 3140
ST1879	STEEL, MIL-S-16974, GRADE 4130
ST1881	STEEL, MIL-S-16974, GRADE 4135
ST1882	STEEL, MIL-S-16974, GRADE 4140
ST2121	STEEL, MIL-S-16974, GRADE 4145
ST1901	STEEL, MIL-S-16974, GRADE 4340
ST1883	STEEL, MIL-S-16974, GRADE 4640
ST1902	STEEL, MIL-S-16974, GRADE 6145
ST1903	STEEL, MIL-S-16974, GRADE 8615
ST1904	STEEL, MIL-S-16974, GRADE 8620
ST2124	STEEL, MIL-S-16974, GRADE 8625
ST1906	STEEL, MIL-S-16974, GRADE 8630
ST1907	STEEL, MIL-S-16974, GRADE 8635
ST1908	STEEL, MIL-S-16974, GRADE 8640
ST1909	STEEL, MIL-S-16974, GRADE 8645
ST2126	STEEL, MIL-S-16974, GRADE CV-45
ST2127	STEEL, MIL-S-16974, GRADE MNV-30
ST2128	STEEL, MIL-S-16974, GRADE MOV-30
ST2129	STEEL, MIL-S-16974, GRADE MOV-40
ST2122	STEEL, MIL-S-16974, GRADE TS8615
ST2123	STEEL, MIL-S-16974, GRADE TS8620
ST2125	STEEL, MIL-S-16974, GRADE TS8625
ST2130	STEEL, MIL-S-18410, CLASS A
ST1890	STEEL, MIL-S-18410, CLASS B
ST1644	STEEL, MIL-S-18732
ST2219	STEEL, QQ-S-637, B1113A
ST2220	STEEL, QQ-S-637, B1113B
ST2221	STEEL, QQ-S-637, 12L14C
ST2222	STEEL, QQ-S-637, 12L14D

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST2223	STEEL, QQ-S-637, 12L14E
ST2224	STEEL, QQ-S-637, 12L14F
ST2225	STEEL, QQ-S-637, 12L14G
ST2226	STEEL, QQ-S-637, 12L14H
ST2227	STEEL, QQ-S-637, 12L14J
ST2228	STEEL, QQ-S-637, 12L14K
ST2229	STEEL, QQ-S-637, 12L14L
ST2230	STEEL, QQ-S-637, 12L14M
ST2233	STEEL, QQ-S-681, CLASS 0050A
ST2234	STEEL, QQ-S-681, CLASS 0050B
ST1720	STEEL, QQ-S-681, CLASS 65-35
ST2231	STEEL, QQ-S-681, CLASS 70-36
ST2232	STEEL, QQ-S-681, CLASS 80-40
ST2131	STEEL, QQ-S-681, CLASS 80-50
ST2132	STEEL, QQ-S-681, CLASS 90-60
ST2133	STEEL, QQ-S-681, CLASS 105-85
ST2134	STEEL, QQ-S-681, CLASS 120-95
ST2135	STEEL, QQ-S-681, CLASS 150-125
ST2136	STEEL, QQ-S-681, CLASS 175-145
ST1721	STEEL, QQ-S-691, CLASS A-CANCELED
ST1722	STEEL, QQ-S-691, CLASS B-CANCELED
ST1723	STEEL, QQ-S-691, CLASS C-CANCELED
ST0977	STEEL, QQ-S-698
ST0947	STEEL, QQ-S-698, COMP 1009
ST0949	STEEL, QQ-S-698, COMP 1018 (modified)
ST2032	STEEL, QQ-S-763
ST3182	STEEL, QQ-S-763, CLASS 6, TYPE A
ST1654	STEEL, QQ-S-763, CLASS 316
ST1668	Steel, QQ-S-763, Class 416 (use Reply Code ST1773)
ST3156	STEEL, QQ-S-763, CLASS 440C
ST1767	STEEL, QQ-S-763, CLASS 440C, COND A
ST1773	STEEL, QQ-S-764, TYPE 303-CANCELED
ST2406	STEEL, QQ-S-764, TYPE 416-CANCELED
ST2287	STEEL, QQ-S-764, TYPE 416, COND H-CANCELED
STD059	STEEL, QQ-S-766, CLASS 323
SN0005	Steel, Stainless (use Reply Code STB000)
TT0000	STEEL, 18-8, GROVE VALVE AND REGULATING CO
TT0001	TIN-BRONZE, (GUN METAL) ASTMB-143-52, ALLOY 1B
TT0002	TITANIUM ALLOY
TT0003	TITANIUM ALLOY, AMS 4900
TT0004	TITANIUM ALLOY, AMS 4901
TT0005	TITANIUM ALLOY, AMS 4902
TT0006	TITANIUM ALLOY, AMS 4921
	TITANIUM ALLOY, AMS 4925
	TITANIUM ALLOY, AMS 4941

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
TT0007	TITANIUM ALLOY, MIL-T-9047, CLASS 1
TT0008	TITANIUM ALLOY, MIL-T-9047, CLASS 6
TNA000	TUNGSTEN CARBIDE
ZN0000	ZINC
ZNL000	Zinc , Die Case (use Reply Code ZN0000)
ZN0042	ZINC ALLOY
ZN0014	ZINC ALLOY, QQ-Z-363
ZN0015	ZINC ALLOY, SAE 903
	ZINC ALLOY, SAE 925

Table 2 - MEDIA FOR WHICH DESIGNED  
MEDIA FOR WHICH DESIGNED

<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
AA	ACETYLENE
AB	AIR
AAJC	AIR, OIL PUMPED
AAJH	AIR, WATER PUMPED
AD	ALCOHOL, ETHYL
AE	ALCOHOL, METHYL
AG	AMMONIA, GASEOUS
AH	AMMONIA, LIQUID
AJ	ARGON
AAJD	ARGON, OIL PUMPED
AK	BROMOCHLOROMETHANE
AR	BUTANE (Underwriter Laboratory Approved (bottled gas)
AS	CARBON DIOXIDE
AW	CARBON MONOXIDE
AT	CARBON TETRACHLORIDE
AV	CHLORINE
AAHT	DEUTERIUM
AACL	DICHLORODIFLUOROMETHANE
AGP	DIFLUOROMETHANE
AAHV	ETHANE
BB	ETHYLENE GLYCOL
AAHW	ETHYLENE, INDUSTRIAL
AAHX	ETHYLENE, MEDICAL
ED	ETHYLENE OXIDE
AAJF	FLUID, PETROLEUM BASE
ADC	FREON
AFE	FREON 12
BD	GAS
AAJA	GAS, NONCORROSIVE
AADF	GENERAL
BL	HELIUM
AAJE	HELIUM, OIL PUMPED

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<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
AAHY	HEXAFLUOROETHANE (Freon 116)
AAGJ	HYDRAULIC FLUID, MIL-H-5606
AAGD	HYDRAULIC FLUID, PETROLEUM BASE
BN	HYDRAULIC FLUID, PHOSPHATE-ESTER BASE
BP	HYDRAULIC FLUID, SILICATE-ESTER BASE
M	HYDRAULIC OIL
BQ	HYDRAZINE
BR	HYDRAZING/UNSYMMETRIC DIMETHYL HYDRAZINE, 50/50-UDMH
BS	HYDROCARBON FUELS AND OILS (includes aromatic fuels (aircraft) diesel fuel, fuel oil, gasoline, grease, hydraulic oil, jet fuel, kerosene, lubricating oil)
BT	HYDROGEN
BU	INGESTED LIQUIDS (to be used only when approval for ingested liquids has been certified)
NM	LIQUEFIED PETROLEUM GAS
GT	LIQUID, NONCORROSIVE
CD	LUBRICATING OIL, DIESTER BASE
AAJB	METHANE
HP	MONOCHLORODIFLUOROMETHANE (Freon 22) (refrigerant 22)
AADW	NATURAL GAS
CF	NITRIC ACID
CH	NITROGEN, GASEOUS
CJ	NITROGEN, LIQUID
AAHR	NITROGEN, OIL PUMPED
CK	NITROGEN, TETRAOXIDE
AAHS	NITROGEN, WATER PUMPED
AAEL	NITROUS OXIDE
AGQ	NONCORROSIVE FLUID
CL	OIL
CN	OXYGEN, GASEOUS
CP	OXYGEN, LIQUID (Lox)
AGR	PETROLEUM BASE FLUID
CQ	PROPANE (Underwriter Laboratory Approved)
AAJG	REFRIGERANT, NONCORROSIVE
AAW	REFRIGERANT R22
DC	STEAM
ET	SULFUR HEXAFLUORIDE
DD	SULPHUR DIOXIDE, GASEOUS
ABA	SULPHUR HEXAFLUORIDE
DE	TRICLORETHYLENE
DF	WATER
DH	WATER, FRESH
DK	WATER, OIL, OR GAS
DL	WATER, SALT

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Table 3 - SURFACE TREATMENTS  
SURFACE TREATMENTS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AN0000	ANODIZED
AN0002	ANODIZED, MIL-A-8625
AN0003	ANODIZED, MIL-A-8625, TYPE 1
AN0004	ANODIZED, MIL-A-8625, TYPE 2
AN0008	ANODIZED, MIL0A08625, TYPE 2, CLASS 2 Black Lacquer (use Reply Code LQ0000)
BA0000	BLACK OXIDE
BL0000	BLUED
BR0000	BRASS Brass Plated (use Reply Code BR0000)
BN0000	BRONZE
CD0000	CADMIUM
CD0001	CADMIUM, AMS 2400
CD0002	CADMIUM, AMS 2416
CDD000	CADMIUM, DICHROMATE TREATED
CD0003	CADMIUM, NAS 672
CD0015	CADMIUM, QQ-P-416
CD0004	CADMIUM, QQ-P-416, TYPE 1, CLASS 1
CD0005	CADMIUM, QQ-P-416, TYPE 1, CLASS 2
CD0006	CADMIUM, QQ-P-416, TYPE 1, CLASS 3
CD0007	CADMIUM, QQ-P-416, TYPE 2, CLASS 1
CD0008	CADMIUM, QQ-P-416, TYPE 2, CLASS 2
CD0009	CADMIUM, QQ-P-416, TYPE 2, CLASS 3
CD0010	CADMIUM, QQ-P-416, TYPE 3, CLASS 1
CD0011	CADMIUM, QQ-P-416, TYPE 3, CLASS 2
CD0012	CADMIUM, QQ-P-416, TYPE 3, CLASS 3
CN0000	CHROMATE (Iridite) (Cronak)
CH0001	CHROME, MIL-F-14072
CHA000	CHROME-NICKEL PLATED
CR0000	CHROMIUM
CU0000	COPPER
EN0000	ENAMEL
GB0000	GALVANIZED
AU0000	GOLD
AUB000	GOLD PLATE OVER SILVER PLATE
GP0000	GRAPHITE
MM0000	IMMUNIZED
LQ0000	LACQUER
LQ0008	LACQUER, ACRYLIC, MIL-L-81352
PBA000	LEAD OR LEAD-TIN (Indium)
MA0000	MOLYBDENUM
NF0001	NICKEL, QQ-N-290
NF0015	NICKEL, QQ-N-290, TYPE 6, MATTE AND MIL-P-6589
NF0000	NICKEL
NFG000	NICKEL PLATED

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
XX0000	OXIDE
XX0031	OXIDE FILM, MIL-C-5541, CLASS 3
AN0001	OXIDE FILM, MIL-C-5541
PN0095	PAINT, MIL-P-23377
PN0017	PAINT, PRIMER, MIL-P-23377
PN0000	PAINTED
PS0000	PASSIVATED
PSA000	PASSIVATED AND DICHROMATE TREATED
PSB000	PASSIVATED AND SILVER PLATED
PS0003	PASSIVATED, MIL-S-5002
PS0009	PASSIVATED, MIL-STD-171, FINISH NO. 5.4.1
PH0000	PHOSPHATE
PH0001	PHOSPHATE, MIL-C-16232, TYPE 2-CANCELED
RH0000	RHODIUM
AG0000	SILVER
AG0001	SILVER, AMS 2410
AG0002	SILVER, QQ-S-365
AG0003	SILVER, QQ-S-365, TYPE 2
SN0000	TIN
SN0001	TIN, AMS 2408.2
SN0002	TIN, PLATED, MIL-T-10727, TYPE 1
VA0000	VARNISHED
VAA000	VARNISHED JAPAN OR JAPANNED FINISH
ZNC000	ZINC, DICHROMATE TREATED
ZN0010	ZINC, QQ-Z-325, TYPE 1
ZN0011	ZINC, QQ-Z-325, TYPE 2, CHROMATE TREATED
ZN0012	ZINC WITH PHOSPHATE, QQ-Z-325, TYPE 3

Table 4 - THREAD DESIGNATORS  
THREAD DESIGNATORS

<u>REPLY CODE</u>	<u>REPLY (AC21)</u>
CG	ACME
AT	ACME C
AU	ACME G
BS	ANPT
CA	BSF
BV	BSP.TR EXT
BW	BSP.TR INT
BZ	BSW
AX	F-PTF
BU	ISO M
BT	ISO S
BE	NGO
BF	NGS
BG	NGT
BJ	NH

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<u>REPLY CODE</u>	<u>REPLY (AC21)</u>
	Nonstandard (use Reply Code AF)
CF	NPS
BP	NPSC
BC	NPSF
BK	NPSH
BD	NPSI
BM	NPSL
BN	NPSM
BL	NPT
AV	NPTF
AW	PTF-SAE SHORT
BA	PTF-SPL
AY	PTF-SPL EXTRA SHORT
AZ	PTF-SPL SHORT
AS	STUB ACME
AD	UN (8, 12, and 16 Pitch)
AA	UNC
AC	UNEF
AB	UNF
AK	UNJ (8, 12, and 16 Pitch)
AG	UNJC
AJ	UNJEF
AH	UNJF
AF	UNS (National Special)

**Table 5 - FURNISHED ITEMS**  
**FURNISHED ITEMS**

<u>REPLY CODE</u>	<u>REPLY (AB28)</u>
CN	ADAPTER
YL	ADAPTER, INLET
CP	AUTOMATIC RELIEF VALVE
YT	BONNET
YK	BRAZING RING
YR	CRANK
CQ	CYLINDER GAGE
CR	DELIVERY GAGE
YZ	DIAL
CS	EXTERNAL PILOT VALVE
CT	FLOWMETER
ZA	HANDLE, LEVER
YV	INDICATOR
CU	INLET PRESSURE GAGE
CV	INTERNAL PILOT VALVE
CW	NEEDLE VALVE
ED	NUT
EE	NUT AND SLEEVE

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<u>REPLY CODE</u>	<u>REPLY (AB28)</u>
YY	NUT, UNION
CX	OUTLET PRESSURE GAGE
AFR	PANEL MOUNTING BRACKET
AFE	PREINSERTED BRAZING RING
CY	PRESSURE BREAKER
AFS	PUSHBUTTON CLEANING RESTRICTION
YP	STEM, ADJUSTMENT
YW	STRAINER
YM	STRAINER, INLET
YX	TAILPIECE
AFQ	TAILPIECE W/GROOVES
CZ	TEMPERATURE GAGE
CC	THERMOMETER
YQ	VALVE, DUMP
YN	VALVE, INTERNAL BYPASS
YS	WRENCH

**Table 6 - FLOW CONTROL DEVICES**  
**FLOW CONTROL DEVICES**

<u>REPLY CODE</u>	<u>REPLY (AC57)</u>
AA	BALL
AB	BALL, PORTED
CT	BELLOWS
CV	BULB
AC	CONE
AD	CONE, BOTTOM GUIDED
AE	CONE, TOP GUIDED
AQ	DIAPHRAGM
BP	DISK
CL	DISK, BEVEL SEAT, BOTTOM GUIDED
CK	DISK, BEVEL SEAT, TOP GUIDED
AM	DISK, BOTTOM GUIDED
AF	DISK, CIRCULAR
AZ	DISK, DUAL
CM	DISK, DUAL, TOP GUIDED
AG	DISK, FLAT
AN	DISK, FLAT, BOTTOM GUIDED
AP	DISK, FLAT, TOP AND BOTTOM GUIDED
CN	DISK, GUIDED
AH	DISK, PLUG TYPE
AJ	DISK, SOLID WEDGE
AK	DISK, SPLIT WEDGE
AR	DISK, SWING TYPE
AL	DISK, TOP GUIDED
CP	DOUBLE SEATED
AS	NEEDLE

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<u>REPLY CODE</u>	<u>REPLY (AC57)</u>
CR	PISTON, BOTTOM GUIDED
AT	PISTON, FREE TYPE
CH	PISTON, SPRING LOADED
CQ	PISTON, TOP GUIDED
AU	PISTON, WEIGHTED TYPE
AV	PLUG
AW	POPPET
CS	POPPET, DUAL DISK
AX	STEM AND INTEGRAL DISK

Table 7 - NONDEFINITIVE SPEC/STD DATA  
NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
BA	IMAGE COLOR
NS	INSERT

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<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER

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<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

## Reference Drawing Groups

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REFERENCE DRAWING GROUP A Tables  
VALVE BODY STYLES

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Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.  
(e.g., ADQLJAA0.750\*; ADQLJLA19.0\*; ADQLJAB0.725\$\$JAC0.778\*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

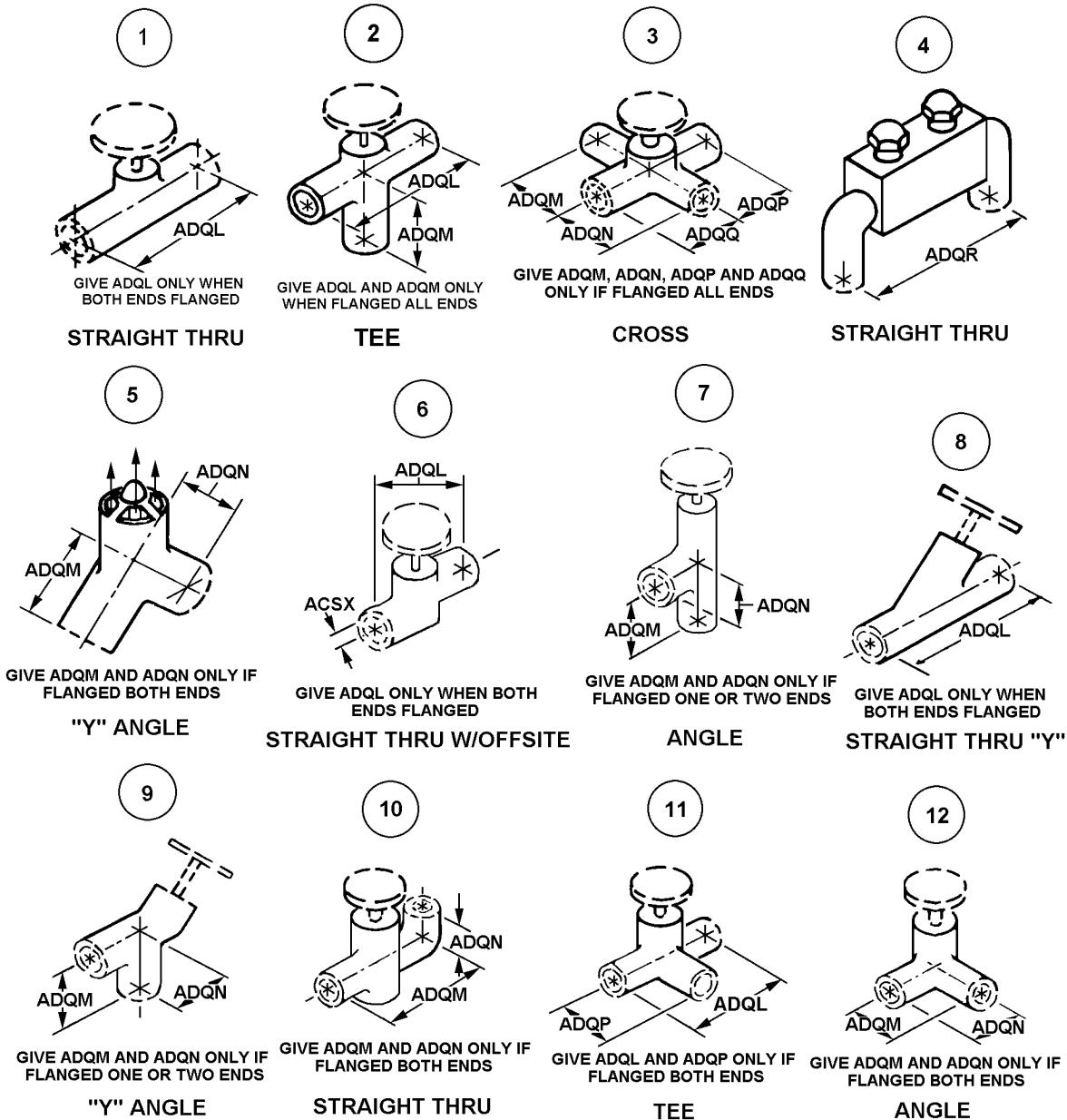
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

NOTE: REPLY ONLY TO THE MRCS THAT ARE APPLICABLE TO THE BODY BEING SELECTED. THE DIMENSION FOR MRCS ADQR AND ACSX, WHEN INDICATED ON THE BODY STYLE, MUST BE GIVEN REGARDLESS OF THE TYPE OF END CONNECTIONS.

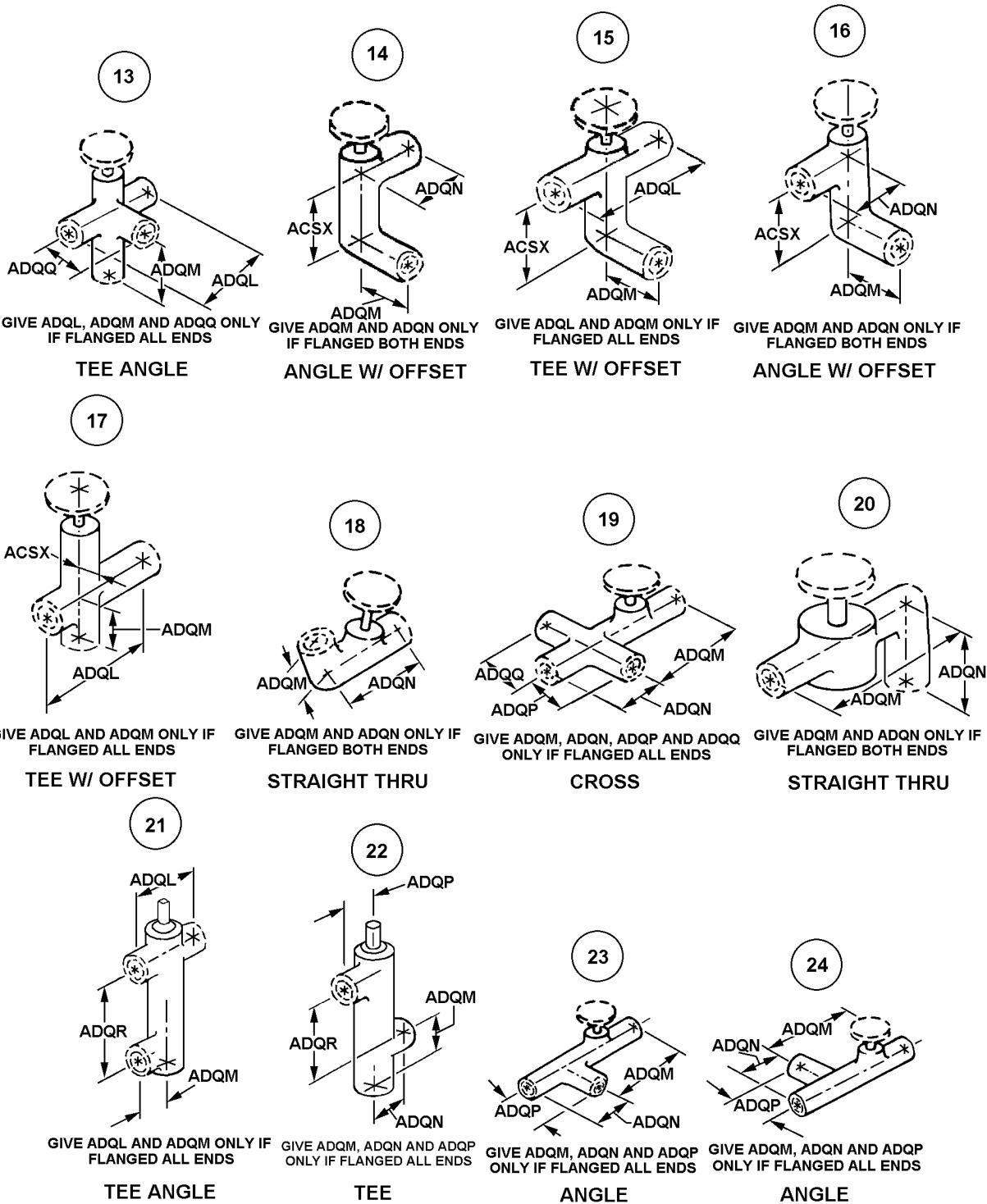
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ADQL	J	FACE TO FACE DISTANCE
ADQM	J	FIRST CONNECTION FACE TO CENTERLINE DISTANCE
ADQN	J	SECOND CONNECTION FACE TO CENTERLINE DISTANCE
ADQP	J	THIRD CONNECTION FACE TO CENTERLINE DISTANCE
ADQQ	J	FOURTH CONNECTION FACE TO CENTERLINE DISTANCE
ADQR	J	CENTER TO CENTER DISTANCE
ACSX	J	OFFSET DISTANCE

REFERENCE DRAWING GROUP A

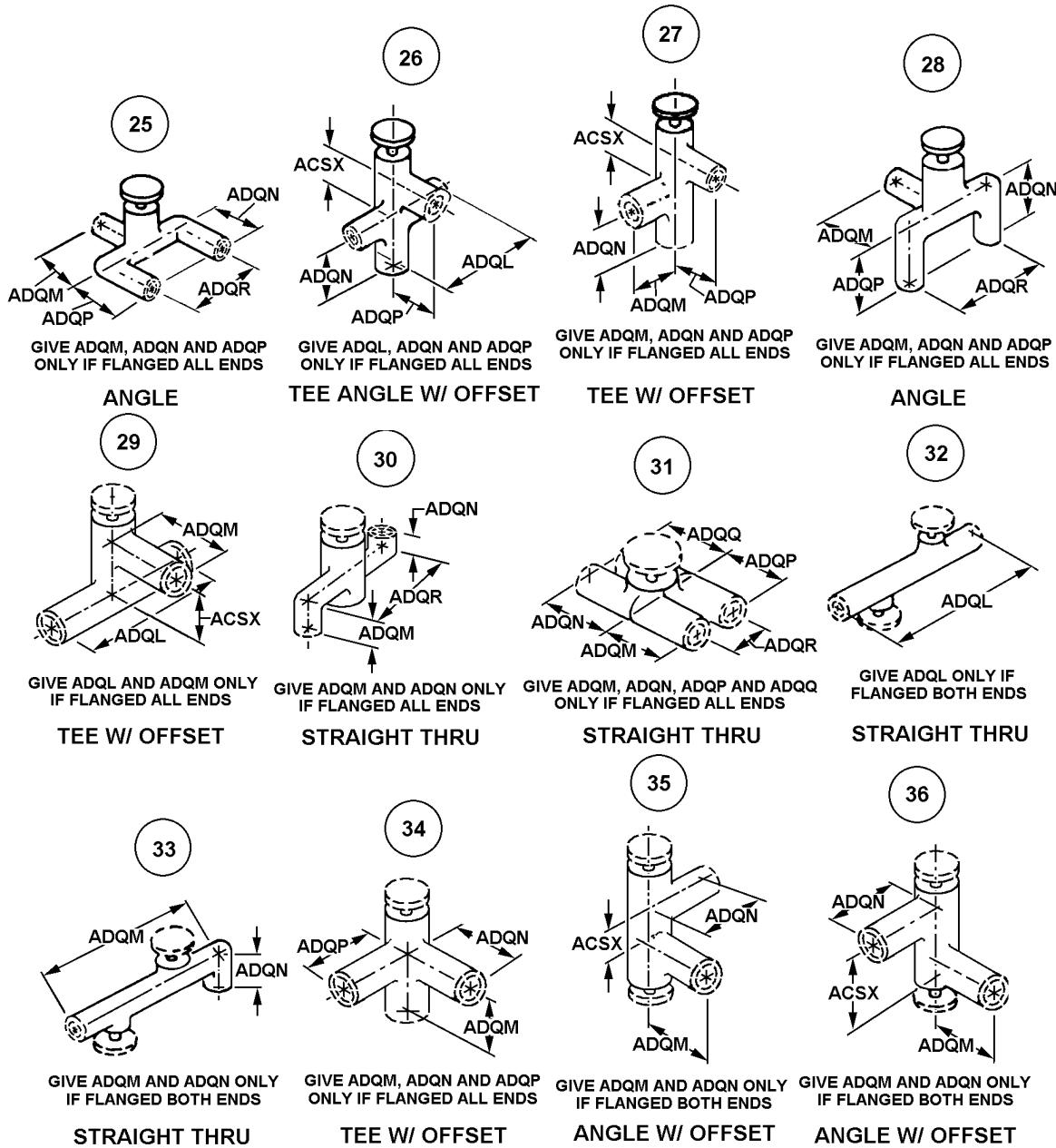
VALVE BODY STYLES



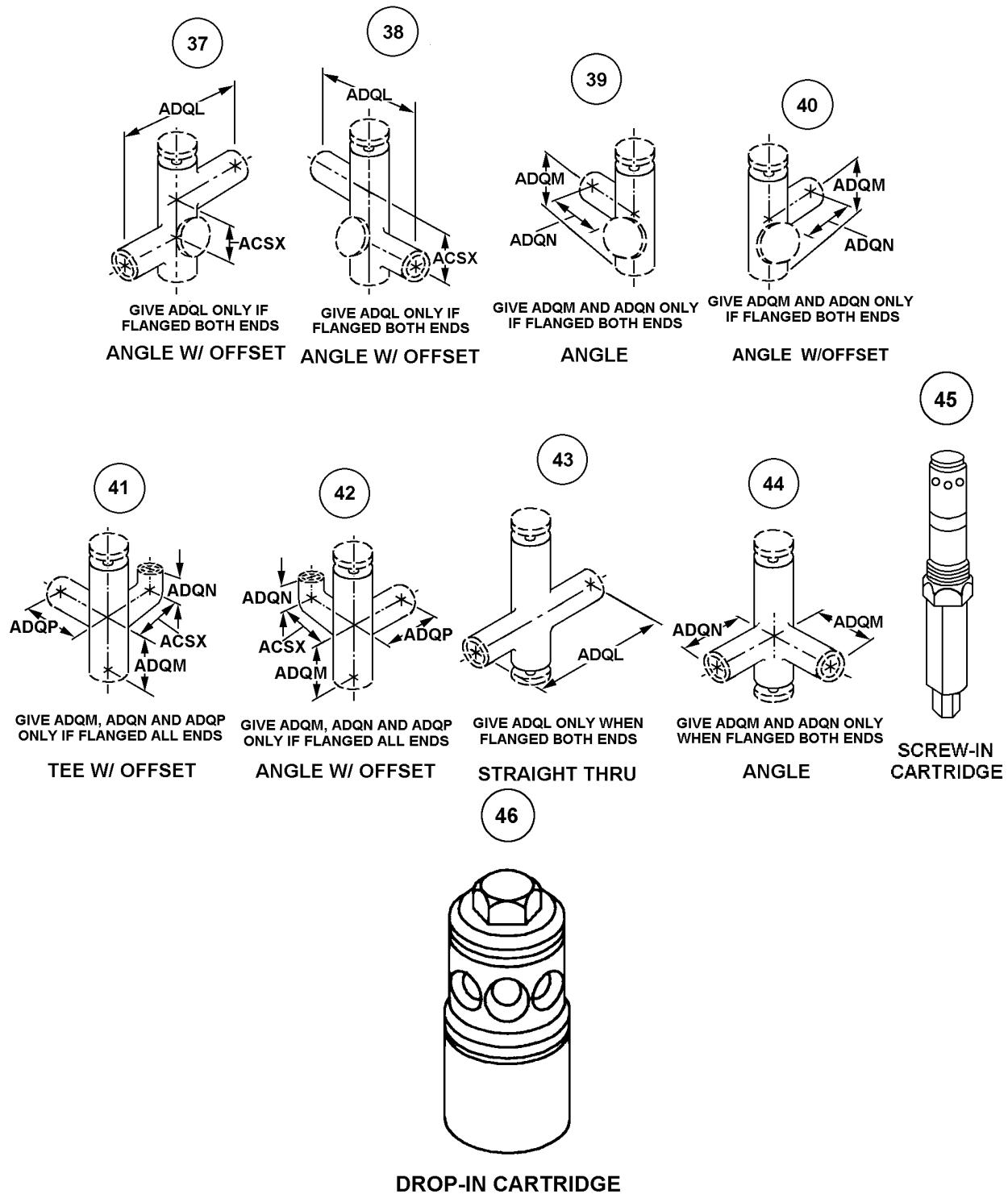
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APPENDIX B



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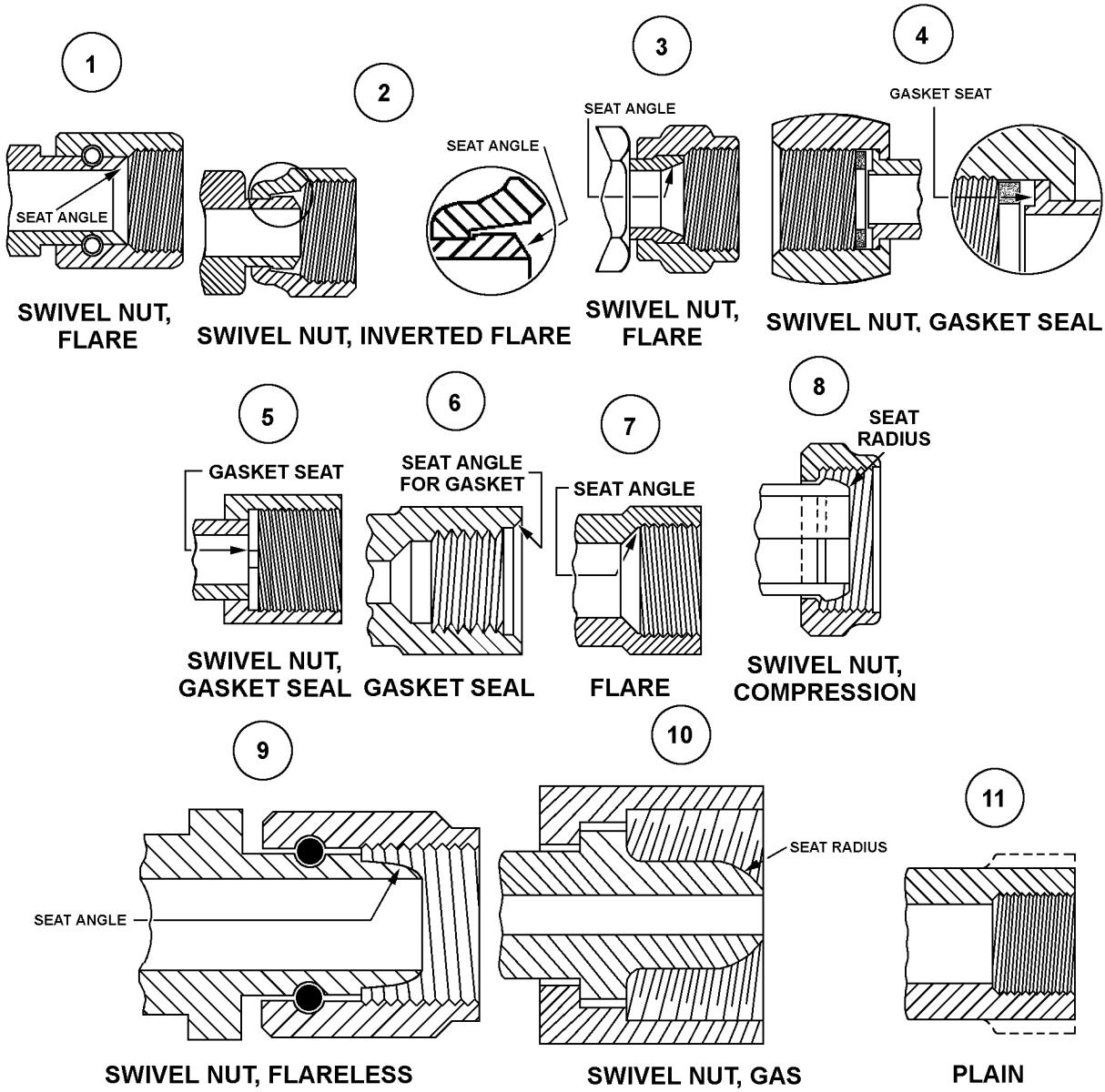
FIIG A211  
APPENDIX B



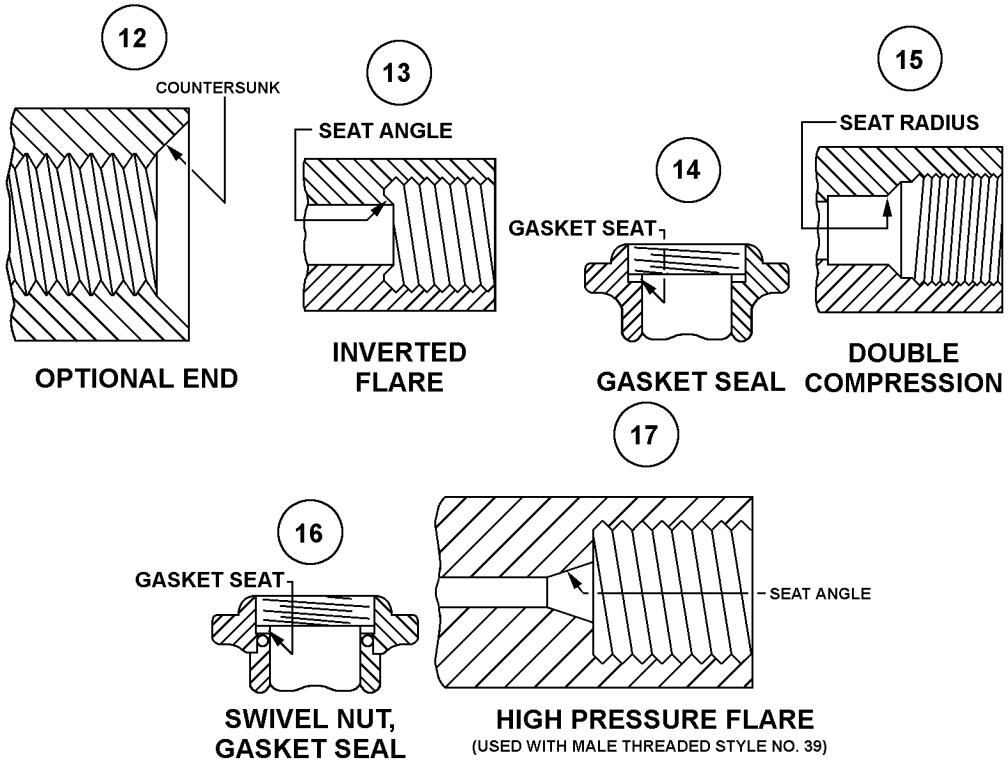
REFERENCE DRAWING GROUP B

END CONNECTIONS THREADED INTERNAL

(No Requirements)

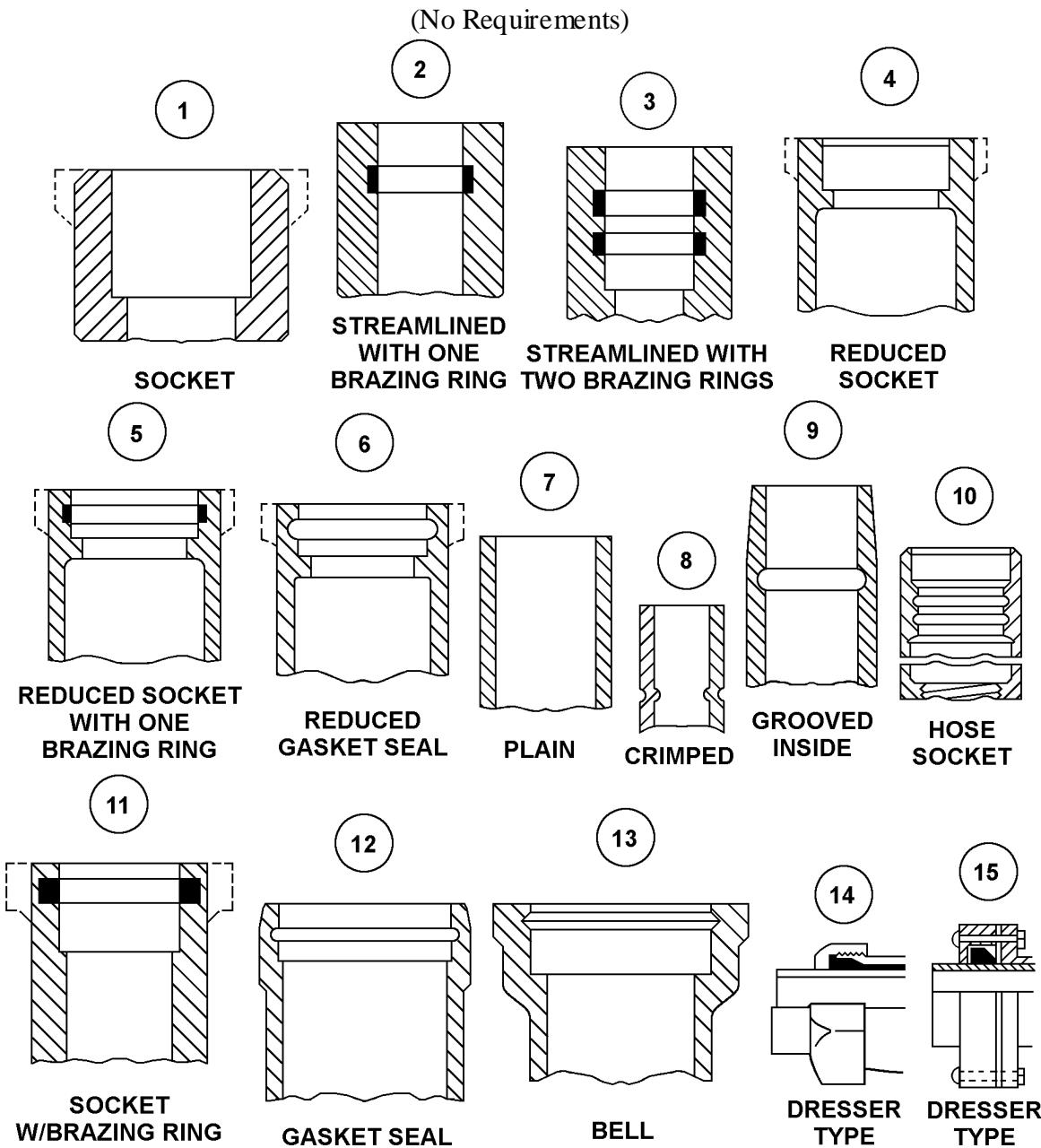


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REFERENCE DRAWING GROUP C

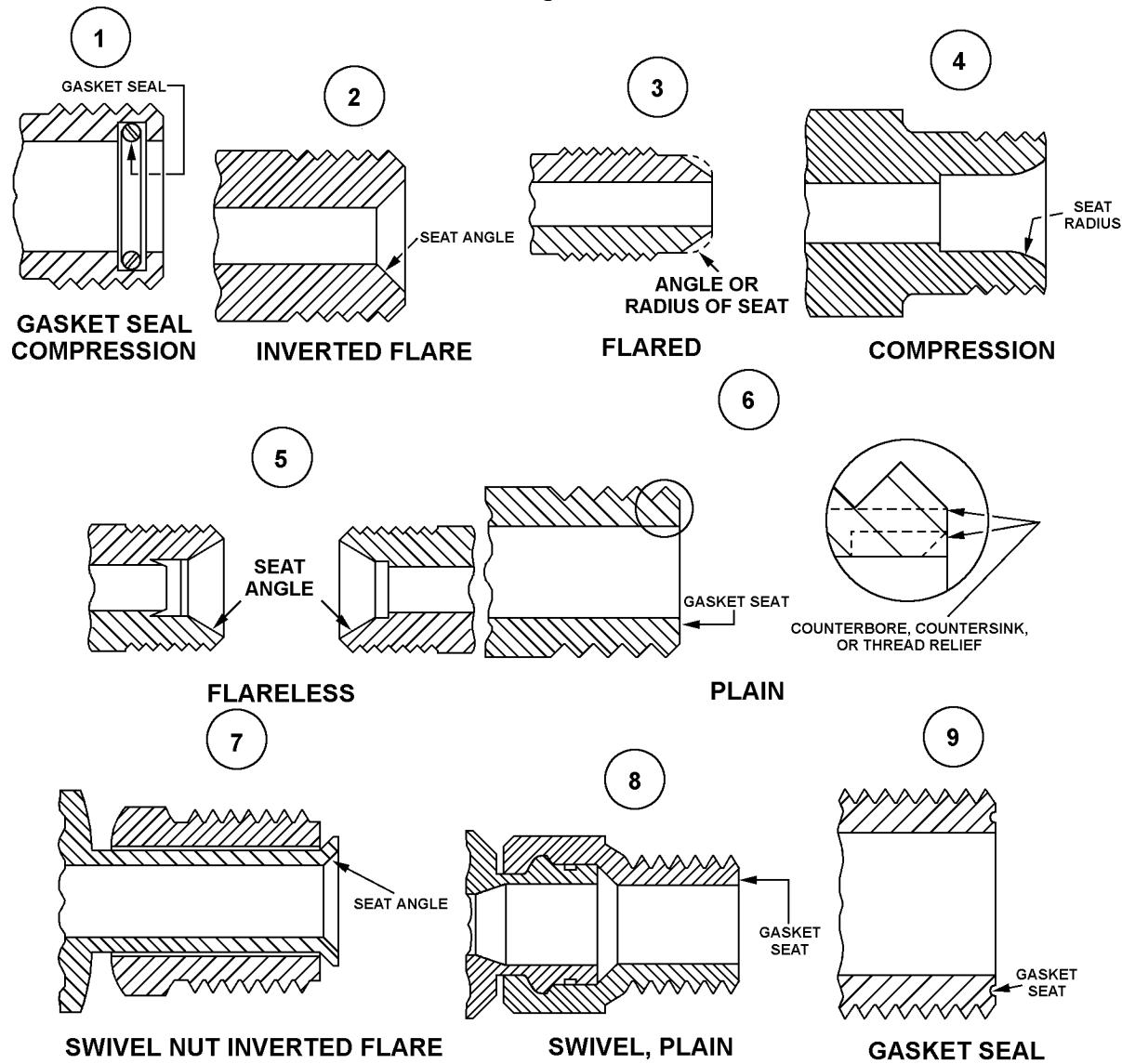
END CONNECTIONS UNTHREADED INTERNAL



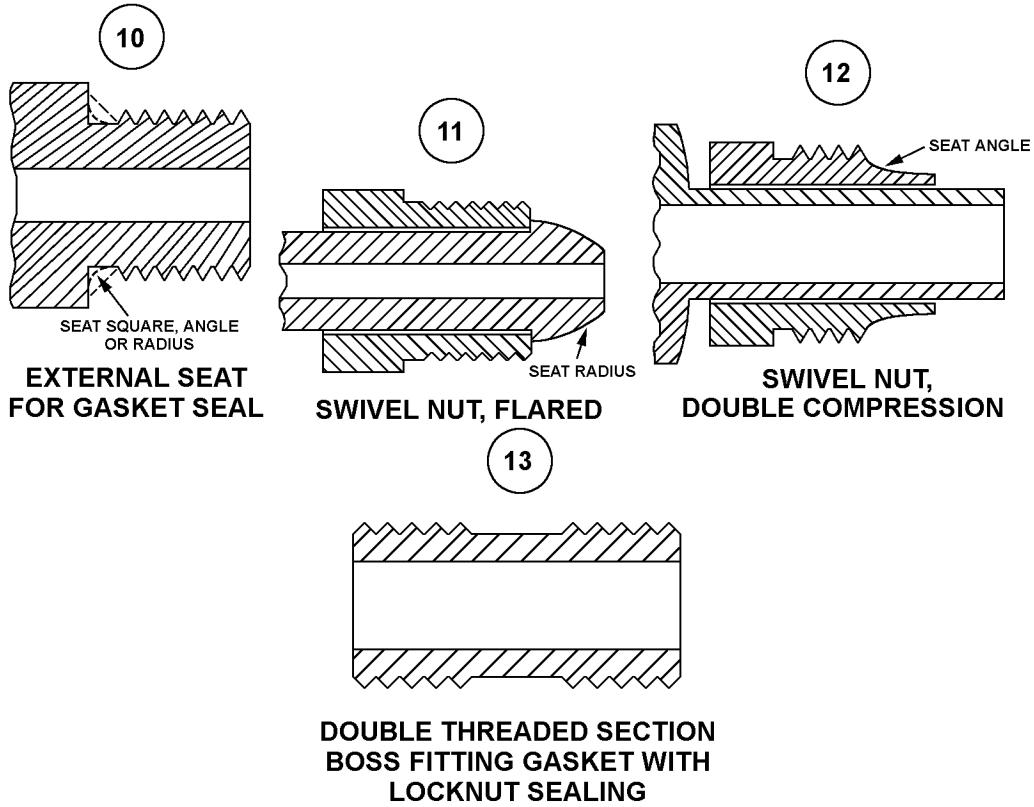
REFERENCE DRAWING GROUP D

END CONNECTIONS THREADED EXTERNAL

(No Requirements)



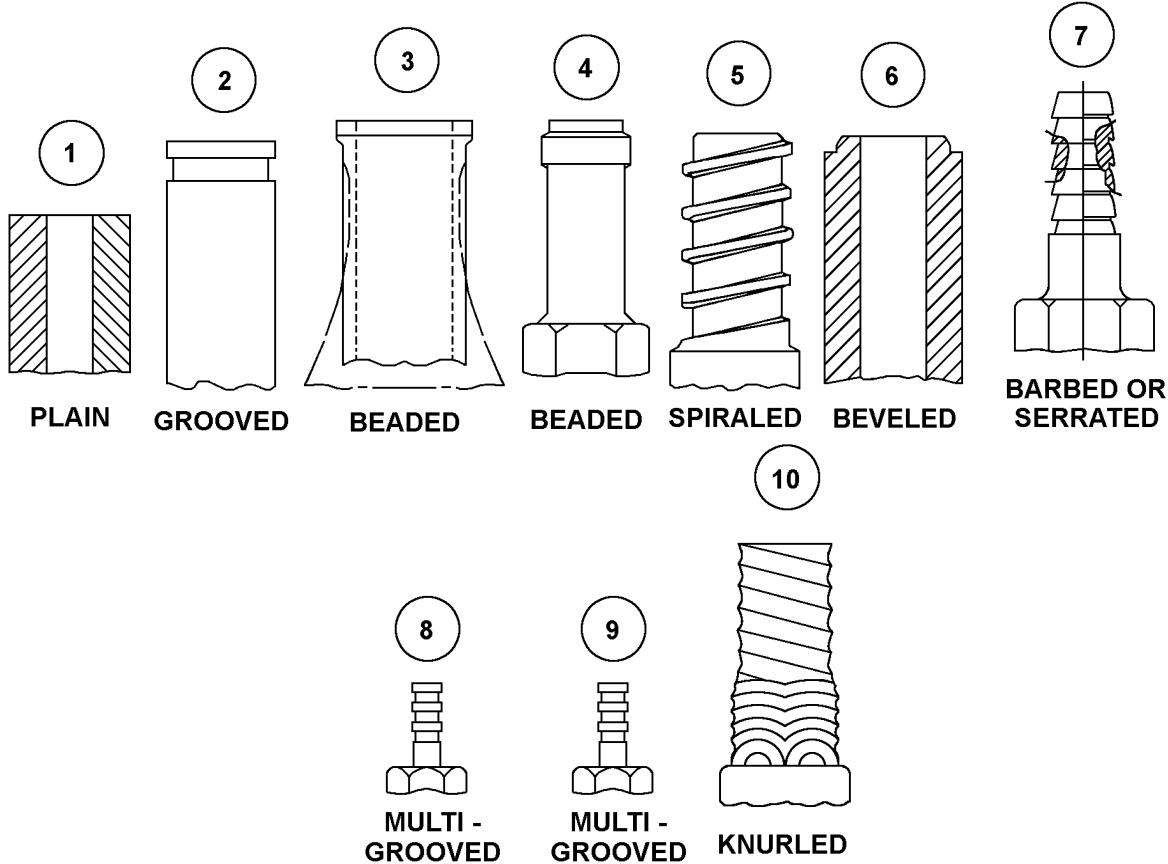
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REFERENCE DRAWING GROUP E

END CONNECTIONS UNTHREADED EXTERNAL

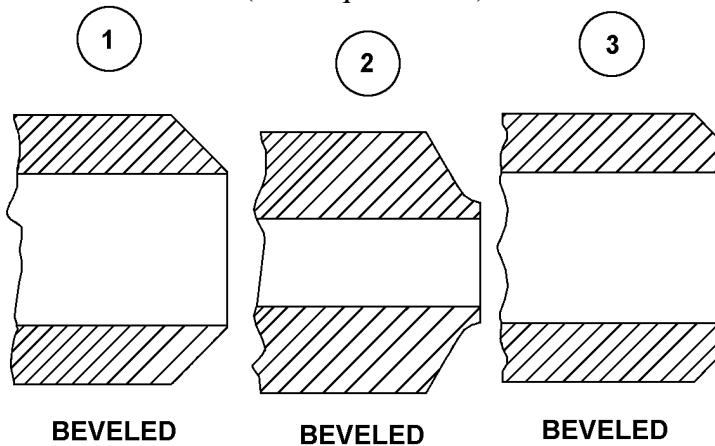
(No Requirements)



REFERENCE DRAWING GROUP F

BUTT WELD

(No Requirements)



BEVELED

BEVELED

BEVELED

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REFERENCE DRAWING GROUP G Tables  
FLANGE FACE TYPES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.  
(e.g., ACKPJAA0.125\*; ACKSJLA3.1\*; ACKSJAB0.123\$\$JAC0.126\*)

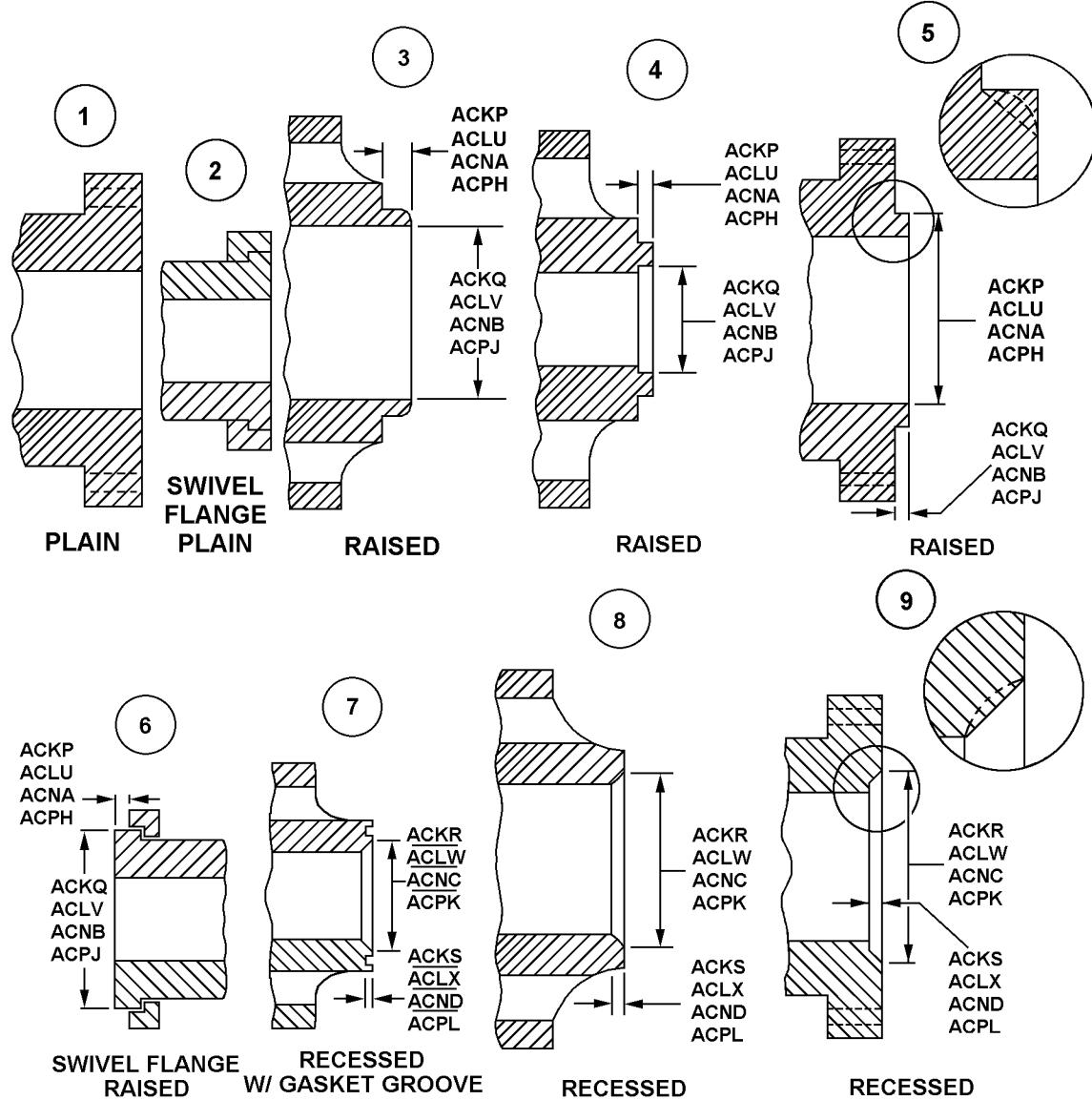
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ACKP	J	FIRST END RAISED FACE HEIGHT
ACKQ	J	FIRST END RAISED FACE DIAMETER
ACKR	J	FIRST END RECESSED DIAMETER
ACKS	J	FIRST END RECESSED DEPTH
ACLU	J	SECOND END RAISED FACE HEIGHT
ACLV	J	SECOND END RAISED FACE DIAMETER
ACLW	J	SECOND END RECESSED DIAMETER
ACLX	J	SECOND END RECESSED DEPTH
ACNA	J	THIRD END RAISED FACE HEIGHT
ACNB	J	THIRD END RAISED FACE DIAMETER
ACNC	J	THIRD END RECESSED DIAMETER
ACND	J	THIRD END RECESSED DEPTH
ACPH	J	FOURTH END RAISED FACE HEIGHT
ACPJ	J	FOURTH END RAISED FACE DIAMETER
ACPK	J	FOURTH END RECESSED DIAMETER
ACPL	J	FOURTH END RECESSED DEPTH

REFERENCE DRAWING GROUP G

FLANGE FACE TYPES



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REFERENCE DRAWING GROUP H Tables  
FLANGE SHAPES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.  
(e.g., AAHAJAA0.500\*; AAHFJLA12.7\*; AAHFJAB0.501\$\$JAC0.505\*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AAHF	J	FIRST END FLANGE OUTSIDE DIAMETER
ACKU	J	FIRST END FLANGE THICKNESS
ACKV	J	FIRST END FLANGE LENGTH
ACKW	J	FIRST END FLANGE WIDTH
ACKX	J	FIRST END FLANGE END RADIUS
ACKY	J	FIRST END WIDTH ACROSS FLATS
AAHV	J	SECOND END FLANGE OUTSIDE DIAMETER
ACLZ	J	SECOND END FLANGE THICKNESS
ACMA	J	SECOND END FLANGE LENGTH
ACMB	J	SECOND END FLANGE WIDTH
ACMC	J	SECOND END FLANGE END RADIUS
ACMD	J	SECOND END WIDTH ACROSS FLATS
ACNG	J	THIRD END FLANGE OUTSIDE DIAMETER
ACNH	J	THIRD END FLANGE THICKNESS
ACNJ	J	THIRD END FLANGE LENGTH
ACNK	J	THIRD END FLANGE WIDTH
ACNL	J	THIRD END FLANGE END RADIUS
ACNM	J	THIRD END WIDTH ACROSS FLATS
ACPQ	J	FOURTH END FLANGE OUTSIDE DIAMETER
ACPP	J	FOURTH END FLANGE THICKNESS
ACPR	J	FOURTH END FLANGE LENGTH
ACPQ	J	FOURTH END FLANGE WIDTH

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MRC    Mode Code    Name of Dimension

ACPS    J                  FOURTH END FLANGE END RADIUS  
ACPT    J                  FOURTH END WIDTH ACROSS FLATS

NOTE: REPLY TO MASTER REQUIREMENT CODES H, J, K, OR L IF A REPLY IS  
GIVEN TO REQUIREMENT 4. SECTION I.

MRC    Mode Code    Name of Dimension

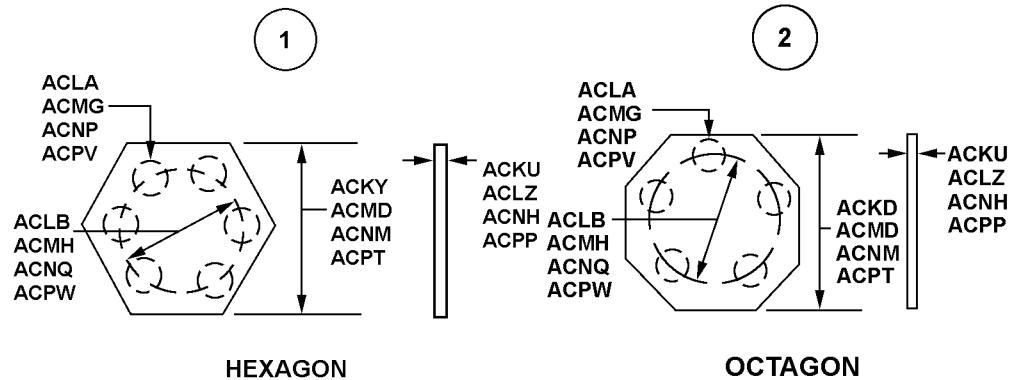
ACLA    J                  FIRST END BOLT HOLE DIAMETER  
ACLB    J                  FIRST END BOLT CIRCLE DIAMETER  
AFLN    J                  FIRST END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG LENGTH  
AFLS    J                  FIRST END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG WIDTH  
ACMG    J                  SECOND END BOLT HOLE DIAMETER  
ACMH    J                  SECOND END BOLT CIRCLE DIAMETER  
AFLP    J                  SECOND END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG  
AFLT    J                  SECOND END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG  
ACNP    J                  THIRD END BOLT HOLE DIAMETER  
ACNQ    J                  THIRD END BOLT CIRCLE DIAMETER  
AFLQ    J                  THIRD END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG LENGTH  
AFLU    J                  THIRD END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG WIDTH  
ACPV    J                  FOURTH END BOLT HOLE DIAMETER  
ACPW    J                  FOURTH END BOLT CIRCLE DIAMETER  
AFLR    J                  FOURTH END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG  
AFLV    J                  FOURTH END CENTER TO CENTER DISTANCE BETWEEN HOLES ALONG  
.....

REFERENCE DRAWING GROUP H

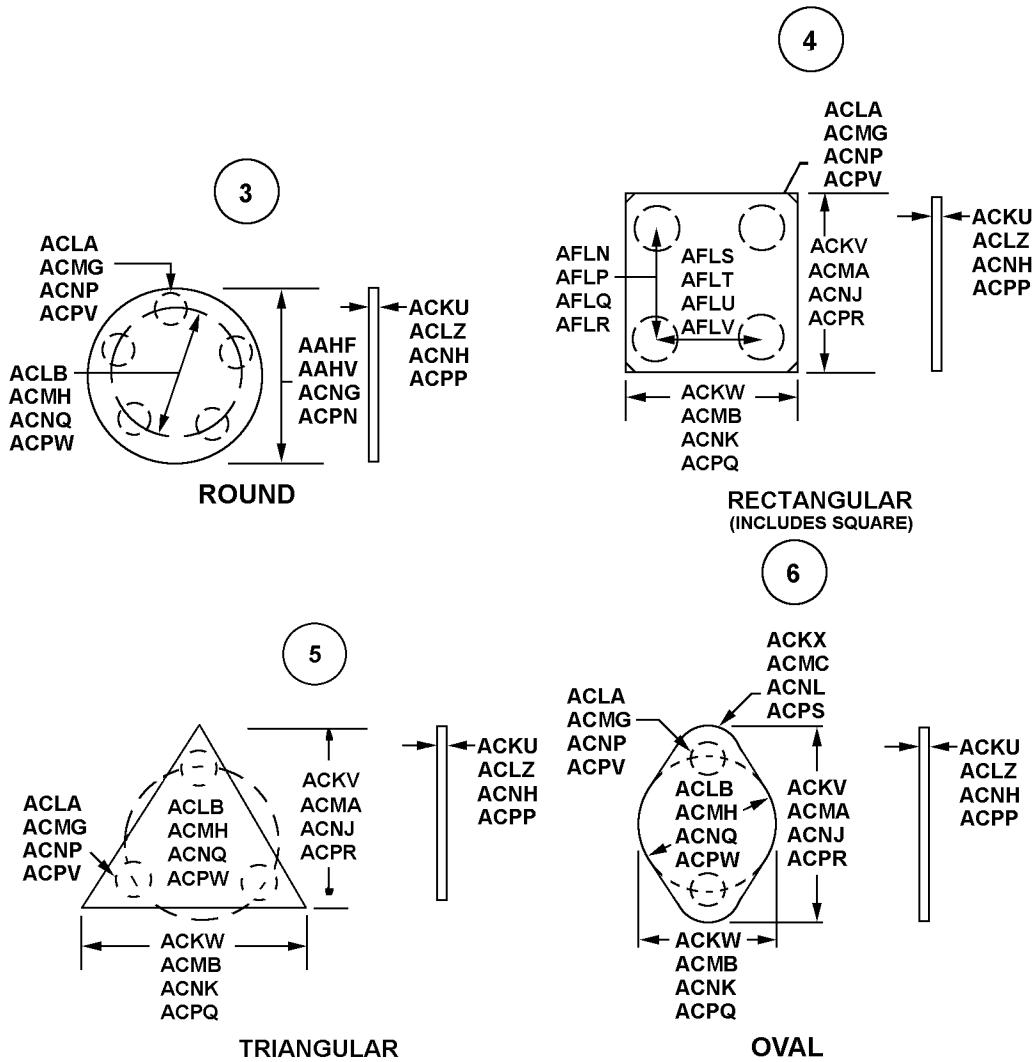
FLANGE SHAPES

NOTE: IF WITHOUT BOLT HOLES, SUFFIX ANY STYLE NUMBER WITH "A". IF WITH BOLT HOLES, STYLE 5 MUST HAVE 3 BOLT HOLES. IF WITH BOLT HOLES, STYLE 6 MUST HAVE 2 BOLT HOLES.

MRCs ACKU, ACLZ, ACNH, ACPP MUST BE ANSWERED FOR ALL STYLES.



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APPENDIX B



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APPENDIX C

**Technical Data Tables**

STANDARD FRACTION TO DECIMAL CONVERSION CHART ..... 108

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APPENDIX C

## STANDARD FRACTION TO DECIMAL CONVERSION CHART

4ths	8ths	16ths	32nds	64ths	To 3	To 4	4ths	8ths	16ths	32nds	64ths	To 3	To 4
				1/64	.016	.0156					33/64	.516	.5156
				1/32	----	.031	.0312			17/32	----	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	----		.062	.0625		9/16	----	----	----	.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
				3/32	----	.094	.0938			19/32	----	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
1/8	----	----	----	----	.125	.1250	5/8	----	----	----	----	.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
				5/32	----	.156	.1562			21/32	----	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	----	----	.188	.1875		11/16	----	----	----	.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
				7/32	----	.219	.2188			23/32	----	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	----	----	----	----	.250	.2500	3/4	----	----	----	----	.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
				9/32	----	.281	.2812			25/32	----	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	----	----	.312	.3125		13/16	----	----	----	.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
				11/32	----	.344	.3438			27/32	----	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
3/8	----	----	----	----	.375	.3750	7/8	----	----	----	----	.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
				13/32	----	.406	.4062			29/32	----	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	----	----	.438	.4375		15/16	----	----	----	.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
				15/32	----	.469	.4688			31/32	----	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
						.500	.5000					1.000	1.0000

## **FIIG Change List**

FIIG Change List, Effective July 2, 2010

This change replaced with ISAC or and/or coding